WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION I - General Information

	ction I shall be completed by all ge iii for instructions on comple		<u>Wa</u>	ter Bureau Use Only	Cas	hier Use C	only: 37000-40	<u>1535-9412-481000-00</u>
	2. To submit additional informa	-	Receipt	Number:	- (RECORDS CEN	TER RECION E
PLE/	ASE TYPE OR PRINT NPDES PERMIT NUMBER] Pe	rmit ID #:	_	USEPA	RECORDS CEN	I REGION 5
1	N/A					11003111	474016 474016	
	Applicant Name Stephen Garbaciak Jr. on behalf of	the Kalamazaa River Study G	roup					
۲	Address	the Raiamazoo River Study G	тоар	Address 2 or P.O.	Box			
APPLICANT	ARCADIS BBL			30 W. Monroe St.		710		
H	City		State		ZIP Cod	le		
2. /	Chicago	<u> </u>	IL		60603			•
	Telephone (with area code)			FAX (with area co	ode)			
	(312) 332-4937 ext. 12			(312) 332-4434				
i	Facility Name 1 Former Plainwell Impoundment							
	Facility Name 2			•				
FACILITY	Facility Name 3							
FAC	Street Address (do not use a P.O. B	Box Number)				-		··· · · ···
က်	Plainwell Dam, near 12 th Street							,
l	City		State		ZIP Cod	de		•
	Plainwell	·	МІ	FAX (with area co	49080			
	Telephone (with area code) NA			NA (Willi area co	ode).			
·		First Name			Last Na	ame		
	Application Contact	Steve			Garbac	iak .		· · · · · · · · · · · · · · · · · · ·
	☐ Facility Contact · ·	Title			Busine			
	☐ Discharge Monitoring Reports	Vice President	•			DIS U.S., In	C	• •
	Storm Water Billing	Address 1 30 W. Monroe St.			Addres Suite 1			
1	<u> </u>	City			Joung	State		ZIP Code
	Biosolids Billing	Chicago	·	· · · · · · · · · · · · · · · · · · ·		IL	,	60603
	NPDES Annual Billing	Telephone (with area code)		FAX (with area coo	ie)		e-mail addre	·
١,		(312) 332-4937, ext. 12	•	(312) 332-4434			steve.garbac	iak@arcadis-us.com
	☐ Application Contact	First Name			Last Na	me	•	
		Title			Busines	SS S		
ST	Facility Contact							
CONTACTS	☐ Discharge Monitoring Reports	Address 1			Address	s 2		
ő	Storm Water Billing	0"			٠,	D		Tain a
4	☐ Biosolids Billing	City				State	•	ZIP Code
	NPDES Annual Billing	Telephone (with area code)		FAX (with area coo	de)		e-mail addre	ss
		First Name	•	<u>.</u>	Last Na	ame	1	<u> </u>
	☐ Application Contact.			•				
1	☐ Facility Contact	Title			Busine	ss		`
1		norts Allers O						
	☐ Discharge Monitoring Reports	Address 1			Addres	s 2		
Ì	Storm Water Billing	City			<u> </u>	State	. •	ZIP Code
1.	☐ Biosolids Billing \	Oity .		*		Jiaio	-	Zii Oode
	☐ NPDES Annual Billing	Telephone (with area code)		FAX (with area çoo	de)		e-mail addre	ss.

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION I - General Information

PLE	ASE	TYPE OR PRINT		·							
		Y NAME	- e			NPDES PERMIT NU	JMBER '	_			
		Plainwell Impoundn				N/A					
5.		NEW USE A pro REISSUANCE of a MODIFICATION of te: Applications for	oposed discharge C current permit. of current permit. A r New Use dischar	OR an existing di Attach a descripti rges and applicat	ischarge that is cur ion of the proposed itions for either Rei s		cation tha		eased loading of pollutants to		
6.	In action any specific Will	new or increased cified in Rule 1098 this discharge be	ule 323.1098 of the d loading of pollut 3, Antidegradation s an increased loadi ntidegradation Den	e Michigan Wate tants to the surf section of the Ap ing of pollutants t	face waters of the	ls, the applicant is restate. An Antide tance completing the	gradation	Demonstration m	egradation Demonstration for nust contain the information Section.		
7	ΑDΓ	DITIONAL FACILIT	TY LOCATION INF	ORMATION - In	structions for this if	tem are on Page iii.					
	Α	Is the treatment f	acility within munic	cipal boundaries?	? 🛛 Yes	□ No					
	В	County				Township Gun Plain and C	Otsego	· · · · · · · · · · · · · · · · · · ·			
	C.	Town 1N	Range 12W	Section 24	1/4	1/4, 1/4	Private ((French) Land Cla	im		
	D.	Latitude 42°27'21"N			· · · · · · · · · · · · · · · · · · ·	Longitude 85°40'05"W	· .				
8.	CER	First Name Contractor will pro	ovide certified ope	<u> </u>	certified operator?	Last Name					
		Address 1				Address 2					
	ı										
	ı	City	,	· .			State		Zip Code		
	, ,	Telephone Numb	er	Fax	x Number		e-	-mail address			
9.	Prov this	Application form; nagement, Wetland	on requested below including, but no	ot limited to, perr Erosion and Sec	mits issued under	any of the following	ng prograr S permits	ms: Air Pollution To submit additio	or at the time of submittal of Control, Hazardous Waste onal information, see Page ii,		
			· · · · · · · · · · · · · · · · · · ·					<u>'</u>	· · · · · · · · · · · · · · · · · · ·		
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WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION I - General Information

PLEASE TYPE OR PI	RIN	T
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ACI	LITY NAME				NPDES PERMIT N				
orm	er Plainwell Impound	ment		King May 1	N/A	ક્ષિકુંધ ર ————————————————————————————————————			
Provide a flow diagram (using 8½" x 11" paper if possible) showing the wastewater flow through the facility (from intake through discharge), including all processes, treatment units, and bypass piping, and include a narrative description that explains the diagram. Show all operations contributing wastewater and the locations of flow meters, chemical feeds, and monitoring and discharge points. The water balance shall show the daily average flow rates at the intake and discharge points, and approximate daily flow rates between treatment units, including influent and treatment rates. Use actual measurements whenever available, otherwise use the best estimate. Show all significant losses of water to products, atmosphere, and discharge. In addition, provide a flow diagram for any storm water discharges from secondary structures that are required by state or federal law, and for storm water runoff from any Site of Environmental Contamination, pursuant to Part 201 of the Michigan Act. Do not send blueprints .									
	Do the treatment facility processes described above include any lagoons or ponds used for wastewater treatment or storage? Yes No If yes, include the ponds or lagoons in the flow diagram.								
	Municipal Facilities - Include a narrative that briefly describes the history of the wastewater treatment facility and collection system, including the initial construction, the facility improvements that have been made, future plans for upgrade, the location of all constructed emergency overflows, and other pertinent information.								
	Industrial and Commercial Facilities - The line diagram shall include all operations contributing wastewater, including process and production areas, sanitary flows, cooling water, and storm water runoff. Also include a narrative that provides a brief description of the nature of the business and the manufacturing processes.								
	ATTACH THIS INFO	RMATION	TO THIS APPL	ICATION. PLEASE DO	NOT BIND THIS INF	ORMATION.			
. 112.	wastewater monitoring discharge point(s) and point and the receive the location of any we (7.5 minute series) pertinent landmarks) ATTACH THIS INFO	ng and disc nd all area ng water. ater supply or other m The min PRMATION ATORIES nd address	charge points into the discharge vintakes or wells ap of comparabimum area this TO THIS APPL THAT PROVIDE of each contract.	E ANALYTICAL SUPPOR	uding bypasses). Incl i., wetlands, open dra el the storm sewer an toring wells. This map ality (which shows su is approximately on	ude the exact local nins, storm sewers) d show its flow pat o shall be a United urface water bodies e mile beyond the	tion of the was , if applicable, h to the receivi States Geologi s, roads, bathin property bour	tewater monitoring and between the discharge ing water. Also include ical Survey Quadrangle ng beaches, and other ndaries.	
Labo	oratory Name	<u> </u>			Laboratory Name				
Stre	et Address				Street Address		······································		
City		State		ZIP Code	City	State	•	ZIP Code	
Tele	phone (with area cod	e)	Fax (with area	code)	Telephone (with ar	ea code)	Fax (with are	ea code)	
Ana	lysis Performed			/ .	Analysis Performe	d			
Laboratory Name					Laboratory Name				
Street Address					Street Address				
City		State		City '	State	City		State	
١	phone (with area cod	e)	Fax (with area	code)	Telephone (with ar	ea code)	Fax (with are	ea code)	
Anal	lysis Performed				Analysis Performe	d .			
	ILITY NAME ner Plainwell Impound	dment	· ·		NPDES PERMIT I N/A	NUMBER			
			. 						

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION I - General Information

PLEASE TYPE OR PRINT

Page ii, Item 3. Name	Address	City	State	ZIP Code
See Attachment 3.		·		
	3			· · · · · ·
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Michigan Department of Environmental Quality- Water Bureau WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION I - General Information

PLEASE TYPE OR PRINT

4.	ST	DRM	WATER DISCHARGES		
	aut pot	horiz able	s that discharge storm water must provide the following information, provided they are addressed in the facility's Storm Water water sources, including water line flushing; fire system test water detergents or other compounds; pavement wash waters where	r Pollution Prevention Plan [SWPPP]): Discharges from fire ter; irrigation drainage; lawn watering; routine building wash	hydrant flushing; down which does
	spil fou	led r ndati	material has been removed) and where detergents are not use on or footing drains where flows are not contaminated with prong questions.	ed; air conditioning condensate; springs; uncontaminated g	round water; and
	A.		e storm water from this facility discharged to the waters of the sharged to a municipal wastewater treatment system or a privately		
		\boxtimes	Yes.		
			No. Continue with Item 15.	·	
	В.	Is th	e facility identified in this application primarily engaged in an "ind	dustrial activity" as defined in 40 CFR 122.26(b)(14)?	
		\boxtimes	Yes.		
	٠		No. Continue with Item 15.		
	C.	an N has in th colu	there any industrial activities or materials exposed to storm wate NPDES permit when there are no industrial activities or materials met all the eligibility requirements to claim a condition of "no expose appendix. This form is also available on the DEQ's Internet from click on WATER, click on Surface Water, click on Storm osure Certification.	s exposed to storm water. To qualify, the applicant shall cert sposure". These requirements are found in the No-Exposure of Page. To access the form, go to http://www.michigan.go	tify that the facility Certification form v/deq. In the left
		\boxtimes	Yes.		
			No. Complete the No-Exposure Certification form, and submit it	it with this application. Continue with Item 15.	
	D.	Doe	es this facility have a current and up-to-date SWPPP?	•	
			Yes.	•	
		\boxtimes	No. Note: The applicant must complete this program eleme	ent to receive storm water discharge authorization.	
	E.		the facility implemented the nonstructural controls described in t	the SWPPP?	
		⋈	Yes. No. Note: The applicant must complete this program eleme	ent to receive storm water discharge authorization.	<u>~</u>
	F.	Hav	re all the structural controls described in the SWPPP been constr	ructed and put into operation?	
			Yes.		
		\boxtimes	No. Note: The applicant must complete this program eleme	ent to receive storm water discharge authorization.	·
	G.		es this facility have a certified industrial storm water operator uded in the Storm Water Pollution Prevention Plan?	who supervises the facility's storm water treatment and	control measures
		Ø	Yes. <u>Contractor will provide</u>	Contractor will	<u>provide</u>
		_	Storm Water Operator Nar		ımber
			No. Note: The applicant must complete this program eleme	ent to receive storm water discharge authorization.	
	Н.	ls a	ny of the storm water discharged from (check all that apply):		
		Ø	Secondary containment structures that are required by state or this area.	federal law. On a separate page, provide a list the materials	that are stored in
		☒	Areas identified on Michigan's list of Sites of Environmental Cor Act, PA 451 of 1994, Part 201 (formerly 307).	ontamination, pursuant to the Natural Resources and Environ	mental Protection
	I.	The	storm water from this facility discharges to the following receiving	ng water(s): <u>Kalamazoo River</u>	
			note that applicants should provide any sample data taken ation, see Page ii, Item 3.	n of the storm water discharge as an attachment. To s	ubmit additional
AC		YN		NPDES PERMIT NUMBER	-
			well Impoundment	N/A	

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION I - General Information

PLEASE TYPE O	R PRINT	<u> </u>	·						
FACILITY NAME		NPDES PERMIT	NUMBER						
Former Plainwell	Impoundment	N/A	N/A						
15 CERTIFICAT	TION								
Rule 323.21	14(1-4), promulgated under the Michigan Act	, requires that this Application be si	gned as follows:						
A. For an o	rganization, company, corporation, or authori	ization, company, corporation, or authority, by a principal executive officer.							
B. For a par	For a partnership, by a general partner.								
•	For a sole proprietor, by the proprietor.								
	unicipal, state, or other public facility, by a premanager, or clerk).	incipal executive officer or ranking	elected official (such as the mayor, village president, city						
Note: If the	signatory is not listed above, but is authorized	d to sign the Application, please pro	vide documentation of that authorization.						
designed to who manage knowledge a	assure that qualified personnel properly gati a the system, or those persons directly re	her and evaluate the information so sponsible for gathering the Inform am aware that there are significant	my direction or supervision in accordance with a system abmitted. Based on my inquiry of the person or persons pation, the information submitted is, to the best of my penalties for submitting false information, including the						
Print Name:	Stephen Garbaciak Jr., P.E.	Title:	Vice President						
Representing	ARCADIS U.S., Inc.								
		· ·							

This completes Section I. Publicly-Owned Treatment Works discharging sanitary and Industrial wastewater to the surface waters, and privately-owned treatment works discharging sanitary wastewater to the surface waters should complete Section II. Privately-owned treatment works include, but are not limited to, Mobile Home Parks, Campgrounds, Condominiums, Hotels and Motels, Nursing Homes, etc. All other applicants should complete Section III. If assistance is needed completing this Application, contact the Permits Section.

1/18/07

Permit Application Submittal Checklist

Signature:

Please confirm the following before submitting the application form:

- ☑ 1. Section I has been completed, including all diagrams, maps, and the treatment process narrative.
- 2. The Application has been signed as required above in Section I.15. (A.-D.) or a copy of the letter authorizing the signatory to sign the letter has been included.
- ☑ 3. Section II or Section III has been completed, including any additional information or submissions.
- ☑ 4. A check or Money Order for the appropriate application fee has made out to the "State of Michigan and has been included with the application submittal."

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION III - Industrial and Commercial Wastewater

Section III is to be completed by all facilities classified as Industrial or Commercial facilities. Industrial and Commercial facilities include, but are not limited to, facilities that discharge or propose to discharge a wastewater generated by a production process, a service provided, or through a remediation project. Municipal and public facilities are not required to complete Section III (unless requesting authorization for discharges other than sanitary wastewater).

A. Facility Information PLEASE TYPE OR PRINT NPDES PERMIT NUMBER **FACILITY NAME** Former Plainwell Impoundment BUSINESS INFORMATION A. Provide up to four Standard Industrial Classification (SIC) or North American Industry Classification System (NAICS) codes, in order of economic importance, which best describe the major products or services provided by this facility. 2. 1 4953 B. Indicate if this facility is a primary industry (refer to Table 1 of the Appendix to determine if this facility is a primary industry). ☐ Yes. This facility is a primary industry. Indicate the primary industry as identified in Table 1 of the Appendix: No. This facility is not a primary industry. Continue with Item C. C. Is this facility a Concentrated Animal Feeding Operation (CAFO)? Yes. -Continue with Section III.B.11. No. Continue with Item 2. WATER SUPPLY AND DISCHARGE TYPE A. Identify all water sources entering the facility and treatment systems, and provide average flows. The volume may be estimated from water supply meter readings, pump capacities, etc. Provide the name of the source where appropriate (i.e., Grand River, Lake Michigan, City of Millpond). To submit additional information, see Page ii, Item 3. Name and Location of Source Average Volume or Flow Rate Municipal Supply Surface Water Intake Private Well GPD Other: precip/ponded water/washwater/excav wate 14,000 to 734,000 B. Identify water discharged by the facility and treatment systems, and provide average flows. If water is first used for one purpose and then is subsequently used for another purpose, indicate the type and amount of the last use. For example, if water is initially used for noncontact cooling water and then for process water, indicate the amount of process water. The amount of water from sources should approximate the amount of water usage. If they are different, provide an explanation. **Average Flow Rate** Average Flow Rate Process Wastewater **GPM** Sanitary Wastewater 15 Contact Cooling Water Regulated Storm Water **GPM** Noncontact Cooling Water High Pressure Test Water Other: Dewater Groundwater Clean-Up 500 **GPM** Cofferdams

Note: For A and B above, indicate units as MGD (million gallons per day), MGY (million gallons per year), GPD (gallons per day), or other appropriate unit.

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION III - Industrial and Commercial Wastewater

B. Outfall Information

Complete a separate Section III.B. - Outfall Information (Pages 25-31) - for each outfall at the facility. Make copies of this blank section of the Application as necessary for additional outfalls.

PLEASE TYPE OR PRINT NPDES PERMIT.NUMBER **FACILITY NAME OUTFALL NUMBER** Former Plainwell Impoundment 1. OUTFALL INFORMATION - Instructions for this item are on Page 23. **HUC Code** Watershed Kalamazoo 04050003 Receiving Water В. Kalamazoo River County Township C. Allegan 1/4 1/4, 1/4 Private (French) Land Claim) Town Range Section D. Latitude Longitude E. Type of Wastewater Discharged (check all that apply to this outfall): ☐ Contact Cooling Groundwater Cleanup ☐ Hydrostatic Pressure Test ■ Noncontact Cooling Water ☑ Process Wastewater ☐ Sanitary Wastewater Storm Water - regulated Storm Water - not regulated ☐ Storm water subject to effluent guidelines (indicate under which category): ☐ Other – specify (see "Table 8 - Other Common Types of Wastewater" - in the Appendix) What is the Maximum Design Flow Rate for this outfall: 0.017 to 0.036 MGD What is the Maximum Authorized Discharge Flow for Seasonal Dischargers 0.70 MGY (Continue with Item I) this outfall for the next five years? Continuous Dischargers _ MGD (Continue with Item J) Seasonal Discharge: List the discharge periods (by month) and the volume discharged in the space provided below. From Through Discharge Volume Annual Total May 2007 October 2007 0.7 MG From Discharge Volume Through From Through Discharge Volume From Through Discharge Volume Continuous Discharge: _ Hours/Day _ How often is there a discharge from this outfall (on the average)? Batch dischargers are required to provide the following additional information: Is there effluent flow equalization? ☐ Yes Batch Peak Flow Rate: Number of batches discharged per day: Maximum Minimum Batch Volume (gallons) Batch Duration (minutes)

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION III - Industrial and Commercial Wastewater

PLEASE TYPE OR PRINT		
FACILITY NAME	NPDES PERMIT NUMBER	OUTFALL NUMBER
Former Plainwell Impoundment	N/A ·	00,1
 PROCESS STREAMS CONTRIBUTING TO OUTFALL DISCHARGE Federal Regulations require that different industries report different info determine the applicable federal regulations for this facility. An abbrev section of the Appendix. Applicants are required to provide the name ar production-based limits must report an estimated annual production rat regulated under federal categorical standards, the applicant is required the discharge. To submit additional information, see Page ii, Item 3. 	iated list is in the Summary of Information to be re nd the SIC or the NAICS code of each process at the e for the next five years or the life of the permit.	ported by Industry Type ne facility. Facilities with f the wastestream is not
PROCESS INFORMATION A. Name of the process contributing to the discharge: Ponded water, we	ash water, excavation water, and storm water	
B. SIC or NAICS code: <u>N/A</u>		
C. Describe the process and provide measures of production: Process waters and collected storm water will be treated by settling, filtration, locations will be determined during construction.	and carbon adsorption and discharged to the Kalan	nazoo River. The discharge
PROCESS INFORMATION A. Name of the process contributing to the discharge:		
B. SIC or NAICS code:		
C. Describe the process and provide measures of production:		
	· · · · · · · · · · · · · · · · · · ·	• .
PROCESS INFORMATION A. Name of the process contributing to the discharge:		
B. SIC or NAICS code:		
C. Describe the process and provide measures of production:		
PROCESS INFORMATION A. Name of the process contributing to the discharge:		1
B. SIC or NAICS code:		•
C. Describe the process and provide measures of production:		:
PROCESS INFORMATION A. Name of the process contributing to the discharge:		
B. SIC or NAICS code:		
C. Describe the process and provide measures of production:		
		:

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION III - Industrial and Commercial Wastewater

PLEASE TYPE OR PRINT					ALCOHOLD SECTION
FACILITY NAME		NPDES PERMIT NU	LL NUMBER		
Former Plainwell Impoundment		N/A		001	
3. EFFLUENT CHARACTERISTICS - CONVENTICE Existing facilities are required to report data from eff alternate test procedures for any parameter listed New facilities are required to provide estimated efflue Appendix for sampling definitions, including "maximur ☐ Check this box if additional information is included Please Note: Rule 323.1062 allows the use of either been disinfected. The Department will use the indicate ☐ Use Escherichia Coliform Bacteria as an indicator of dis	fluent analysis for the below have been a ent concentrations for daily concentration as an attachment. Escherichia Coliforn for selected below in of disinfection.	e parameters listed b pproved, see Page or the parameters list or and "maximum mo or submit additional or Bacteria or Fecal C	elow. For analytica ii, Item 5 ed below. (See the I nthly concentration." information, see Pag coliform Bacteria as a	Il test requirement Definition Section () ge ii, Item 3. an indicator that e	in the
	Maximum	Maximum			And Colombia and Colombia
	Monthly	Daily		Number of	
Parameter	Concentration	Concentration	Units	Analyses	Sample Type
Biochemical Oxygen Demand – five day (BOD ₅)			mg/l		Grab 24 Hr Comp
Chemical oxygen demand (COD)			mg/l		Grab 24 Hr Comp
Total organic carbon (TOC)			mg/l		Grab 24 Hr Comp
Ammonia Nitrogen (as N)			mg/l		☐ Grab☐ 24 Hr Comp
Total Suspended Solids			mg/l		Grab 24 Hr Comp
Total Dissolved Solids			mg/l	100	Grab 24 Hr Comp
Total Phosphorus (as P)			mg/l		Grab 24 Hr Comp
Fecal Coliform Bacteria (report geometric means)		maximum 7-day	counts/100ml		Grab
Escherichia Coliform Bacteria (report geometric means)		maximum 7-day	counts/100 ml		Grab
Total Residual Chlorine			☐ mg/l ☐ μg/l	e eralinistis	Grab
Dissolved Oxygen	Do Not Use	minimum daily	mg/l	W 19	Grab 24 Hr Comp
pH (report maximum and minimum of individual samples)	minimum	maximum	standard units		Grab 24 Hr Comp
Temperature, Summer			□°F□°C		Grab 24 Hr Comp
Temperature, Winter			□°F□°C		Grab 24 Hr Comp
Oil & Grease		and the same gain and a self-con-	mg/l		Grab
					☐ Grab ☐ 24 Hr Comp
			1		Grab 24 Hr Comp
					☐ Grab☐ 24 Hr Comp

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION III - Industrial and Commercial Wastewater

B. Outfall Information

PLEASE TYPE OR PRINT

FACILITY NAME	NPDES PERMIT NUMBER	OUTFALL NUMBER
Former Plainwell Impoundment	N/A	001 ·

Note: For questions on this page, Tables 1-5 are found in the Appendix.

4. PRIMARY INDUSTRY PRIORITY POLLUTANT INFORMATION

Existing primary industries that discharge process wastewater are required to submit the results of at least one effluent analysis for <u>selected</u> organic pollutants identified in Table 2 (as determined from Table 1, <u>Testing Requirements for Organic Toxic Pollutants by Industrial Category</u>), and all of the pollutants identified in Table 3. Existing primary industries are required to also provide the results of at least one effluent analysis for any other chemical listed in Table 2 known or believed to be present in facility effluent.

In addition, submit the results of all other effluent analyses performed within the last five years for any chemical listed in Tables 2 and 3.

New primary industries that propose to discharge process wastewater are required to provide an estimated effluent concentration for any chemical listed in Tables 2 and 3 expected to be present in facility effluent.

5. DIOXIN AND FURAN CONGENER INFORMATION

Existing industries that use or manufacture 2,3,5-trichlorophenoxy acetic acid (2,4,5-T); 2- (2,3,5-trichlorophenoxy) propanoic acid, (Silvex, 2,3,5-TP); 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon); 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothionate (Ronnel); 2,4,5-trichlorophenol (TCP); or hexachlorophrene (HCP), or knows or has reason to believe that 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) is present in facility effluent, are required to submit the results of at least one effluent analysis for the dioxin and furan congeners listed in Table 6. All effluent analyses for dioxin and furan congeners shall be conducted using EPA Method 1613.

In addition, submit the results of all other effluent analyses performed within the last five years for any dioxin and furan congener listed in Table 6.

New industries that expect to use or manufacture 2,3,5-trichlorophenoxy acetic acid (2,4,5-T); 2- (2,3,5-trichlorophenoxy) propanoic acid (Silvex, 2,3,5-TP); 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon); 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothionate (Ronnel); 2,4,5-trichlorophenol (TCP) or hexachlorophrene (HCP), or knows or has reason to believe that 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) is present in facility effluent shall provide estimated effluent concentrations for the dioxin and furan congeners listed in Table 6.

6. OTHER INDUSTRY PRIORITY POLLUTANT INFORMATION

Existing secondary industries, or existing primary industries that discharge non-process wastewater, are required to submit the results of at least one effluent analysis for any chemical listed in Tables 2 and 3 known or believed to be present in facility effluent.

In addition, submit the results of all other effluent analyses performed within the last five years for any chemical listed in Tables 2 and 3.

New secondary industries, or new primary industries that propose to discharge non-process wastewater, are required to provide an estimated effluent concentration for any chemical listed in Tables 2 and 3 expected to be present in facility effluent.

7. ADDITIONAL TOXIC AND OTHER POLLUTANT INFORMATION

All existing industries, regardless of discharge type, are required to provide the results of at least one analysis for any chemical listed in Table 4 known or believed to be present in facility effluent, and a measured or estimated effluent concentration for any chemical listed in Table 5 known or believed to be present in facility effluent. In addition, submit the results of any effluent analysis performed within the last five years for any chemical listed in Tables 4 and 5.

New industries, regardless of discharge type, are required to provide an estimated effluent concentration for any chemical listed in Tables 4 and 5 expected to be present in facility effluent.

8. INJURIOUS CHEMICALS NOT PREVIOUSLY REPORTED

New or existing industries, regardless of discharge type, are required to provide a measured or estimated effluent concentration for any toxic or otherwise injurious chemicals known or believed to be present in facility effluent that have not been previously identified in this Application. Quantitative effluent data that are less than five years old for these chemicals shall be reported.

NOTE: All effluent data submitted in response to questions 4, 5, 6, 7, and 8 above should be recorded on Page 30. To submit additional information, see Page ii, Item 3. If the effluent concentrations are estimated, place an "E in the "Analytical Method" column. The following fields shall be completed for each data row: Parameter, CAS No., Concentration(s), Sample Type, Analytical Method, Quantification Level, and Detection Level. For analytical test requirements, see Page ii, Item 5.

If Alternate Test Procedures have been approved for any parameter listed above (Items 4 through 8), see Page ii, Item 5 for additional instructions.

Michigan Department of Environmental Quality- Water Bureau WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION III - Industrial and Commercial Wastewater

ACILITY NAME ormer Plainwell Impoundment								NPDES N/A	NPDES PERMIT NUMBER N/A				OUTFALL NUMBER 001		
SAMP	LE DATE →							· 美。							
PARAMETER	CAS No.	Conc. (ug/l)	Conc. (ug/l)	Conc. (ug/l)	Sample Type	Analytic Method	QL	DL							
	4	,													
															1000
										45-					
				. 8								Z			

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION III - Industrial and Commercial Wastewater

B. Outfall Information

PΙ	FASE	TYPE	OR	PRINT

ACILITY NAME	NPDES PERMIT NUMBER	OUTFALL NUMBER
ormer Plainwell Impoundment	N/A	001
 WATER TREATMENT ADDITIVES Water treatment additives include any material that is a treat the water. 	dded to water used at the facility or to wastewater gene	erated by the facility to condition or
Approvals of water treatment additives are authorized be constitute approval of the water treatment additives that a		ance of an NPDES permit does not
A. Are there water treatment additives in the discharge fi	rom this facility?	, , , , , , , , , , , , , , , , , , , ,
☐ Yes		
☑ No. Proceed to Question 10.		
B. Have these water treatment additives been previously	y approved?	·
Yes. Submit a list of the previously-approved water to ltem C., Items 1-8 shall be updated if it has changed	reatment additives and the date on which they were approsince the previous approval.	roved. The information listed in
☐ No. Continue with Item C.		
Submit a list of water treatment additives that are or r below for each additive.	nay be discharged from the facility. Applicants are requir	red to submit the information listed
The water treatment additive Material Safety Data S	Sheet.	
2. The proposed water treatment additive discharge co	oncentration.	:
3. The discharge frequency (i.e., number of hours per	day, week, etc.)	
4. The outfall from which the water treatment additive	is to be discharged.	
5. The type of removal treatment, if any, that the water	treatment additive receives prior to discharge.	
6. The water treatment additive function (i.e., microbio	cide, flocculant, etc.).	. •
7. A 48-hour LC50 or EC50 for a North American fresh	nwater planktonic crustacean (either Ceriodaphnia sp., D	aphnia sp., or Simocephalus sp.).
	erican freshwater aquatic species (other than a planktoniuality Standards. Examples of tests that would meet this	•
The required toxicity information (described in Items 7 a listed on the DEQ's Internet page. To access that info column under Water Quality Monitoring , click on "A Treatment Additive List." If you intend to use one of the to be submitted to the WD.	rmation, go to http://www.michigan.gov/deq, click on "S assessment of Michigan Waters." Under the Informa	ite Map," at the bottom of the right ation heading, click on the "Water
Note: The availability of toxicity information for a water tr	eatment additive does not constitute approval to discharge	ge the water treatment additive
0. WHOLE EFFLUENT TOXICITY TESTS		
Have any acute or chronic WET tests been conducted or years? If yes, identify the tests and summarize the result For assistance in WET testing, see "Whole Effluent Toxic	Its on a separate sheet, unless the test has been submitt	
1. COMPREHENSIVE ANIMAL FEEDING OPERATION (C	AFO) INFORMATION. To be completed by CAFO's only	1
The applicant shall provide: Specific information about to and total capacity for CAFO waste storage. CAFO wavailable for land application of CAFO waste. Estim	aste storage structure design. The total number of a	cres under control of the applicant

This completes Section III. Return the completed Application (Sections I and III, and any attachments) to one of the addresses on Page ii of this Application. If assistance is needed to complete this Application, contact the Permits Section.

transferred to other persons per year. A list and map(s) showing the location of all land application fields. All potential receiving waters for both the

production area and all land application areas. For additional information see "CAFO Guidance and Requirements" in the Appendix..

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION III - Industrial and Commercial Wastewater

B. Outfall Information

Complete a separate Section III.B. - Outfall Information (Pages 25-31) - for each outfall at the facility. Make copies of this blank section of the Application as necessary for additional outfalls.

	E TYPE OR PRIN	<u></u>					1		
	TY NAME				NPDES PERMIT NUMBER			TFALL NUMBER	
Former	Plainwell Impoun	dment		1 1	I/A		002		
1. OL	JTFALL INFORM	ATION - Instruction	s for this item are o	n Page 23.					
Α.	Watershed				HUC Code				
Δ.	Kalamazoo					04050003			
В.	Receiving Wa		•						
٥.	Kalamazoo R	iver	•					<u> </u>	
C.	County Allegan				Township	,	•		
D.	Town	Range	Section	1/4	1/4, 1/4	Private (French) I	Land Claim)	,	
E.	Latitude				Longitude			,	
F.	Type of Waster	water Discharged (check all that apply	to this outfall):	-				
	☐ Contact Co	oling	☐ Groundwate	r Cleanup	☐ Hydrostatio	Pressure Test	☐ Nonco	ntact Cooling Water	
	☑ Process Wa	astewater	☐ Sanitary Was	stewater	☐ Storm Wat	ter - not regulated	Storm St	Water - regulated	
	☐ Storm wate	r subject to effluent	guidelines (indical	le under which ca	itegory):				
	Other - spe	cify (see "Table 8 -	Other Common Ty	pes of Wastewat	er" - in the Appendi	x)			
G.	What is the Ma	ıximum Design Flov	w Rate for this outfa	ill: 0.017 to 0.03	<u>6</u> MGD			•	
	•								
Н	What is the M	aximum Authorized	d Discharge Flow f	or S	easonal Discharge	rs <u>0.60</u> MGY (0	Continue with It	em I)	
	this outfall for t	he next five years?		C	Continuous Discharg	gers MGD	(Continue wit	h Item J)	
· I.	Seasonal Discl	harge:						,	
•	List the dischar	rge periods (by moi	nth) and the volume	discharged in th	e space provided b	elow.		•	
								 	
	From		Through			Discharge Volume		Annual Total	
	July 2007		-	ber 2007		0.6 MG		- '	
	From		Through	1		Discharge Volume			
	From		. Through	า		Discharge Volume		-	
	From		Through	h .		Discharge Volume			
	L								
J.	Continuous Dis	•				,	•		
	How often is th	ere a discharge fro	m this outfall (on th	e average)?	Hours/Day	/ Days/Yea	r .		
•	Batch dischar	gers are required	to provide the foll	owing additiona	ll information:			•	
	Is there effluen	t flow equalization?	?	□ No					
	Batch Peak Flo	ow Rate:		Number	of batches discharg	ged per day:			
			Minin	num	Ave	rage	Ma	ıximum	
	Batch Volume	e (gallons)							
	Batch Duration	on (minutes)							

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION III - Industrial and Commercial Wastewater

TELAGE THE GIVENNIA		
FACILITY NAME Former Plainwell Impoundment	NPDES PERMIT NUMBER N/A	OUTFALL NUMBER
	N/A	002
2. PROCESS STREAMS CONTRIBUTING TO OUTFALL DISCHARGE Federal Regulations require that different industries report different info determine the applicable federal regulations for this facility. An abbrevi section of the Appendix. Applicants are required to provide the name ar production-based limits must report an estimated annual production rate regulated under federal categorical standards, the applicant is required the discharge. To submit additional information, see Page ii, Item 3.	iated list is in the Summary of Information to be re and the SIC or the NAICS code of each process at the e for the next five years or the life of the permit. It	ported by Industry Type ne facility Facilities with f the wastestream is not
PROCESS INFORMATION		
A. Name of the process contributing to the discharge: Ponded water, w	ash water, excavation water, and storm water	,
B. SIC or NAICS code: N/A		,
C. Describe the process and provide measures of production:		
Process waters and collected storm water will be treated by settling, filtration,	and carbon adsorption and discharged to the Kalar	nazoo River. The discharge
locations will be determined during construction.		
	<u> </u>	
PROCESS INFORMATION A. Name of the process contributing to the discharge:		
B. SIC or NAICS code:		
C. Describe the process and provide measures of production:		
PROCESS INFORMATION	···	
A. Name of the process contributing to the discharge:		
B. SIC or NAICS code:		
C. Describe the process and provide measures of production:		-
O. Describe the process and provide measures of production.	•	
PROCESS INFORMATION A. Name of the process contributing to the discharge:	•	
B. SIC or NAICS code:		
C. Describe the process and provide measures of production:		
	·	
PROCESS INFORMATION A. Name of the process contributing to the discharge:		
B. SIC or NAICS code:		
C. Describe the process and provide measures of production:	•	

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION III - Industrial and Commercial Wastewater

B. Outfall Information

INSTRUCTIONS FOR COMPLETING SECTION III B. OUTFALL INFORMATION, ITEM B.3.

In accordance with 40 CFR 122.21, all applicants are required to report CBOD₅, Chemical Oxygen Demand, Total Organic Carbon, Total Suspended Solids, Ammonia as N, Temperature (both summer and winter), and pH. The applicant may, however, request that reporting of data for one or more of these required parameters be waived. Such requests shall be supported by adequate rationale. The request shall be included as an attachment to this Application.

Report available discharge data for the parameters listed in Section III.B.3 of this Application. Actual data shall be provided for existing discharges, and expected or estimated data provided for proposed discharges. Please include an explanation if "Pollution Prevention Measures" are expected to reduce pollutants. Certain types of discharges shall provide a minimum of analytical test date for specific parameters. See "Minimum Analytical Testing Requirements for Various Discharge Requests" in the Appendix for a list of specific discharge types and their specific parameters (e.g., noncontact cooling waters, petroleum groundwater cleanups, etc.). For assistance in determining the appropriate parameters to report, contact the Permits Section. Data for other conventional parameters not listed in Section III.B.3. can be reported on the blank spaces provided. To submit additional information, see Page ii, item 3.

Report all data in the units provided and for the sample types specified in the table. If more than one option is available, check the appropriate box. The units are as follows: $\mu g/l = micrograms$ per liter, mg/l = milligrams per liter, $^{\circ}F = degrees$ Fahrenheit, $^{\circ}C = degrees$ Celsius. For analytical test requirements, see Page ii, Item 5.

To analyze for pH, temperature, total residual chlorine, oil and grease, and fecal coliform, use **Grab Samples** unless other frequency-sample type analyses are available. To analyze for total BOD₅, total phosphorus, COD, TOC, ammonia nitrogen, and total suspended solids, use **24-hour composite samples** unless other frequency-sample type analyses are available.

For two or more substantially identical outfalls, permission may be requested from the appropriate district office to sample and analyze only one outfall and submit the results of the analysis for other substantially identical outfalls. If the request is granted by the district office, on a separate sheet attached to the Application, identify which outfall was sampled and describe why the outfalls which were not sampled are substantially identical to the outfall which was sampled. See the Appendix, "Definitions" Section for sampling definitions, including "maximum daily concentration" and "maximum monthly concentration."

REPORTING OF INTAKE DATA

Applicants attempting to demonstrate eligibility for "net" effluent limitations for one or more pollutants are required to report intake water data. A "net" effluent limitation is determined by subtracting the average level of the pollutant(s) present in the intake waters from the average level of the pollutant(s) remaining after treatment. NPDES regulations allow net limitations only in certain circumstances (see 40 CFR, Part 122.45(g)). To demonstrate eligibility, report the average concentration and/or mass of the results of the analyses on the intake water. If the intake water is treated <u>prior</u> to use, report the intake concentrations and/or mass after treatment. In addition to the analytical results, the following information shall be submitted for each parameter:

- a) A statement that the intake water is drawn from the body of water into which the discharge is made. If the discharge is not to the same body of water from which the water is withdrawn, the facility is not eligible for net limitations.
- b) A statement of the extent to which the level of the pollutant in the intake water is reduced by treatment of the wastewater. Limitations for the net removal of pollutants are adjusted only to the extent that the pollutant is not removed.
- c) When applicable (for example, when the pollutant represents a class of compounds, e.g., BOD₅, TSS, etc.), a demonstration of the extent to which the pollutants in the intake vary physically, chemically, and biologically from the pollutants contained in the discharge. Limitations are adjusted only to the extent that the concentrations of the intake pollutants vary from the discharged pollutants.

Note: Applicants for groundwater remediation discharges should also report the intake characteristics of the contaminated groundwater.

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION III - Industrial and Commercial Wastewater

PLEASE TYPE OR PRINT			-		Att distribution in the
FACILITY NAME		NPDES PERMIT NU	JMBER		ALL NUMBER
Former Plainwell Impoundment		N/A		002	
 EFFLUENT CHARACTERISTICS - CONVENTICE Existing facilities are required to report data from eff alternate test procedures for any parameter listed New facilities are required to provide estimated efflue Appendix for sampling definitions, including "maximum Check this box if additional information is included Please Note: Rule 323.1062 allows the use of either been disinfected. The Department will use the indicate Use Escherichia Coliform Bacteria as an indicator 	fluent analysis for the below have been apent concentrations for a daily concentration" as an attachment. To Escherichia Coliform for selected below in the	parameters listed by proved, see Page the parameters listed and "maximum mo o submit additional in Bacteria or Fecal C	elow. For analytica ii, Item 5 ed below. (See the nthly concentration." information, see Pag coliform Bacteria as a	Itest requirement Definition Section) The ii, Item 3. The indicator that e	in the
☐ Use Fecal Coliform Bacteria as an indicator of dis	infection.				
	Maximum Monthly	Maximum Daily		Number of	
Parameter	Concentration	Concentration	Units	Analyses	Sample Type
Biochemical Oxygen Demand – five day (BOD ₅)			mg/l		Grab 24 Hr Comp
Chemical oxygen demand (COD)			mg/l		☐ Grab ☐ 24 Hr Comp
Total organic carbon (TOC)			mg/l		☐ Grab ☐ 24 Hr Comp
Ammonia Nitrogen (as N)			mg/l		☐ Grab☐ 24 Hr Comp
Total Suspended Solids			mg/l		☐ Grab ☐ 24 Hr Comp
Total Dissolved Solids	1 100 100 1		mg/l		☐ Grab ☐ 24 Hr Comp
Total Phosphorus (as P)			mg/l		☐ Grab ☐ 24 Hr Comp
Fecal Coliform Bacteria (report geometric means)		maximum 7-day	counts/100ml		Grab
Escherichia Coliform Bacteria (report geometric means)	Dec 1	maximum 7-day	counts/100 ml		Grab
Total Residual Chlorine			□ mg/l □ μg/l		Grab
Dissolved Oxygen	Do Not Use	minimum daily	mg/l		☐ Grab ☐ 24 Hr Comp
pH (report maximum and minimum of individual samples)	minimum	maximum	standard units		☐ Grab ☐ 24 Hr Comp
Temperature, Summer			□°F □°C		☐ Grab ☐ 24 Hr Comp
Temperature, Winter			□°F □°C		☐ Grab ☐ 24 Hr Comp
Oil & Grease	Tagers Carlo		mg/l		Grab
		5-1.			Grab 24 Hr Comp
					Grab 24 Hr Comp
					Grab 24 Hr Comp

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION III - Industrial and Commercial Wastewater

B. Outfall Information

PLEASE TYPE OR PRINT

FACILITY NAME	NPDES PERMIT NUMBER	OUTFALL NUMBER
Former Plainwell Impoundment	N/A	002

Note: For questions on this page, Tables 1-5 are found in the Appendix.

4. PRIMARY INDUSTRY PRIORITY POLLUTANT, INFORMATION

Existing primary industries that discharge process wastewater are required to submit the results of at least one effluent analysis for selected organic pollutants identified in Table 2 (as determined from Table 1, Testing Requirements for Organic Toxic Pollutants by Industrial Category), and all of the pollutants identified in Table 3. Existing primary industries are required to also provide the results of at least one effluent analysis for any other chemical listed in Table 2 known or believed to be present in facility effluent.

In addition, submit the results of all other effluent analyses performed within the last five years for any chemical listed in Tables 2 and 3.

New primary industries that propose to discharge process wastewater are required to provide an estimated effluent concentration for any chemical listed in Tables 2 and 3 expected to be present in facility effluent.

5. DIOXIN AND FURAN CONGENER INFORMATION

Existing industries that use or manufacture 2,3,5-trichlorophenoxy acetic acid (2,4,5-T); 2- (2,3,5-trichlorophenoxy) propanoic acid, (Silvex, 2,3,5-TP); 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon); 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothionate (Ronnel); 2,4,5-trichlorophenol (TCP); or hexachlorophrene (HCP), or knows or has reason to believe that 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) is present in facility effluent, are required to submit the results of at least one effluent analysis for the dioxin and furan congeners listed in Table 6. All effluent analyses for dioxin and furan congeners shall be conducted using EPA Method 1613.

In addition, submit the results of all other effluent analyses performed within the last five years for any dioxin and furan congener listed in Table 6.

New industries that expect to use or manufacture 2,3,5-trichlorophenoxy acetic acid (2,4,5-T); 2- (2,3,5-trichlorophenoxy) propanoic acid (Silvex, 2,3,5-TP); 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon); 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothionate (Ronnel); 2,4,5-trichlorophenoi (TCP) or hexachlorophrene (HCP), or knows or has reason to believe that 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) is present in facility effluent shall provide estimated effluent concentrations for the dioxin and furan congeners listed in Table 6.

6. OTHER INDUSTRY PRIORITY POLLUTANT INFORMATION

Existing secondary industries, or existing primary industries that discharge non-process wastewater, are required to submit the results of at least one effluent analysis for any chemical listed in Tables 2 and 3 known or believed to be present in facility effluent.

In addition, submit the results of all other effluent analyses performed within the last five years for any chemical listed in Tables 2 and 3.

New secondary industries, or new primary industries that propose to discharge non-process wastewater, are required to provide an estimated effluent concentration for any chemical listed in Tables 2 and 3 expected to be present in facility effluent.

7. ADDITIONAL TOXIC AND OTHER POLLUTANT INFORMATION

All existing industries, regardless of discharge type, are required to provide the results of at least one analysis for any chemical listed in Table 4 known or believed to be present in facility effluent, and a measured or estimated effluent concentration for any chemical listed in Table 5 known or believed to be present in facility effluent. In addition, submit the results of any effluent analysis performed within the last five years for any chemical listed in Tables 4 and 5.

New industries, regardless of discharge type, are required to provide an estimated effluent concentration for any chemical listed in Tables 4 and 5 expected to be present in facility effluent.

8. INJURIOUS CHEMICALS NOT PREVIOUSLY REPORTED

New or existing industries, regardless of discharge type, are required to provide a measured or estimated effluent concentration for any toxic or otherwise injurious chemicals known or believed to be present in facility effluent that have not been previously identified in this Application. Quantitative effluent data that are less than five years old for these chemicals shall be reported.

NOTE: All effluent data submitted in response to questions 4, 5, 6, 7, and 8 above should be recorded on Page 30. To submit additional information, see Page ii, Item 3. If the effluent concentrations are estimated, place an "E in the "Analytical Method" column. The following fields shall be completed for each data row: Parameter, CAS No., Concentration(s), Sample Type, Analytical Method, Quantification Level, and Detection Level. For analytical test requirements, see Page ii, Item 5.

If Alternate Test Procedures have been approved for any parameter listed above (Items 4 through 8), see Page ii, Item 5 for additional instructions.

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION III - Industrial and Commercial Wastewater

FACILITY NAME Former Plainwell Impoundment NPDES PERMIT NUMBER N/A						OUTFALL NUMBER 002									
SAME	LE DATE >				37 5 36	1 1 1 1					TK.				
PARAMETER	CAS No.	Conc. (ug/l)	Conc. (ug/l)	Conc. (ug/l)	Conc. (ug/l)	Conc. (ug/l)	Conc. (ug/l)	Conc. (ug/l)	Conc. (ug/l)	Conc. (ug/l)	Conc. (ug/l)	Sample Type	Analytic Method	QL	DL
													E CONTROL		
					2.727.9										
	E Application														
															2.2
				Z-v-A				1.00							
	The Same												1000		
			12 Jan 1										- 19		
	2 2 2 2														
			6.			47									
	Abryt	-		34 7						173					
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A.				J. F. F.						6.7 100					
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	1000			3-4			1 300							della della	
			200							des.					2
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					15-98			ENGLA AFRICA			100 Thurst				
	10										8 (3)	305 SAS 1			<u> </u>
												100			

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION III - Industrial and Commercial Wastewater

B. Outfall Information

ы	FΑ	SF	TYPE	OR	PRIN	ıΤ

	CILITY NAME rmer Plainwell Impoundment	NPDES PERMIT NUM N/A	BER	OUTFALL NUMBER 002
9.	WATER TREATMENT ADDITIVES Water treatment additives include any material that is additived the water.		vastewater generated b	
	Approvals of water treatment additives are authorized by constitute approval of the water treatment additives that are		nce. The issuance of	an NPDES permit does not
	A. Are there water treatment additives in the discharge from	om this facility?		
	☐ Yes.	·		
	☑ No. Proceed to Question 10.			
	B. Have these water treatment additives been previously	approved?		•
	Yes. Submit a list of the previously-approved water treatment of the List of the previously-approved water treatment of the List of the Li		n they were approved.	The information listed in
	☐ No. Continue with Item C.	÷		
	C. Submit a list of water treatment additives that are or ma below for each additive.	ay be discharged from the facility. Appl	icants are required to su	ubmit the information listed
	The water treatment additive Material Safety Data Sh	neet.		
	2. The proposed water treatment additive discharge con	ncentration.		
	3. The discharge frequency (i.e., number of hours per d	ay, week, etc.).	•	
	4. The outfall from which the water treatment additive is	to be discharged		
	5. The type of removal treatment, if any, that the water t	treatment additive receives prior to discl	harge.	
	6. The water treatment additive function (i.e., microbioci	ide, flocculant, etc.).	•	
	7. A 48-hour LC50 or EC50 for a North American freshw	vater planktonic crustacean (either Ceri	odaphnia sp., Daphnia s	sp., or Simocephalus sp.).
:	 The results of a toxicity test for one other North Amer requirement of Rule 323.1057(2)(a) of the Water Qua for rainbow trout, bluegill, or fathead minnow. 		• *	· · · · · · · · · · · · · · · · · · ·
	The required toxicity information (described in Items 7 and listed on the DEQ's Internet page. To access that inform column under Water Quality Monitoring , click on "As Treatment Additive List." If you intend to use one of the with to be submitted to the WD.	mation, go to http://www.michigan.gov/osessment of Michigan Waters." Und	deq, click on "Site Map, er the Information he	," at the bottom of the right ading, click on the "Water
	Note: The availability of toxicity information for a water trea	atment additive does not constitute app	roval to discharge the w	ater treatment additive.
10.	WHOLE EFFLUENT TOXICITY TESTS		- · · · · · · · · · · · · · · · · · · ·	
	Have any acute or chronic WET tests been conducted on years? If yes, identify the tests and summarize the results For assistance in WET testing, see "Whole Effluent Toxicit	s on a separate sheet, unless the test ha	as been submitted to the	
11.	COMPREHENSIVE ANIMAL FEEDING OPERATION (CA	FO) INFORMATION. To be completed	by CAFO's only	
	The applicant shall provide: Specific information about the and total capacity for CAFO waste storage. CAFO was available for land application of CAFO waste. Estimat transferred to other persons per year. A list and map(s) s production area and all land application areas. For addition	ste storage structure design. The total ted amounts of CAFO waste generate showing the location of all land application.	al number of acres und ed per year. Estimated on fields. All potential r	der control of the applicant d amounts of CAFO waste eceiving waters for both the

This completes Section III. Return the completed Application (Sections I and III, and any attachments) to one of the addresses on Page ii of this Application. If assistance is needed to complete this Application, contact the Permits Section.

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION III - Industrial and Commercial Wastewater

B. Outfall Information

Complete a separate Section III.B. - Outfall Information (Pages 25-31) - for each outfall at the facility. Make copies of this blank section of the Application as necessary for additional outfalls.

PLE	EASE	TYPE OR PRINT	·	•				
FAG	CILITY	NAME .			1	NPDES PERMIT NU	JMBER	OUTFALL NUMBER
For	mer Pl	lainwell Impoundn	nent	-		N/A 8		003
1.	OUT	FALL INFORMAT	ION - Instructions	for this item are o	n Page 23.			
	A.	Watershed Kalamazoo					HUC Code 04050003	
	В	Receiving Wate						
	C.	County Allegan				Township	·	
	D.	Town	Range	Section	1/4	1/4, 1/4	Private (French) Land Cla	aim)
	E.	Latitude				Longitude		
	F.	☐ Contact Cooli	ng	heck all that apply	r Cleanup		•	Noncontact Cooling Water
		☑ Process Wast	ewater	☐ Sanitary Was	stewater	☐ Storm Wat	ter - not regulated	Storm Water - regulated
		☐ Storm water s	ubject to effluent o	guidelines (indicat	te under which ca	ategory):	. ,	
		☐ Other specif	y (see "Table 8 - 0	Other Common Ty	pes of Wastewat	er" - in the Appendi	x)	
	G.	Mhat is the Mavi	mum Design Flow	Rate for this outfa	ull: 0.017 to 0.03	se MGD		•
	О.	· ·	num Design Flow	Nate for this outle	0.017 10 0.00	O MGD		
	H I.	this outfall for the Seasonal Discha	next five years?	Discharge Flow for		Seasonal Discharger	gers MGD (Contin	•
		List the discharge	e periods (by mon			e space provided b	elow.	· · · · · · · · · · · · · · · · · · ·
•		From March 2008		Through June 20			Discharge Volume 2.2 MG	Annual Total
		From		Through	h	· -	Discharge Volume	
		From		Through	n .		Discharge Volume	
		From		Through	n		Discharge Volume	
	J.	Batch discharge	e a discharge fron	n this outfall (on th		Hours/Day	/ Days/Year	
		Is there effluent f	low equalization?	☐ Yes	□ No			
		Batch Peak Flow	Rate:	_	Number	of batches discharg	ged per day:	
				Minin	num	Ave	rage	<i>,</i> Maximum
		Batch Volume (gallons)	,			-1.5.1	
	•	Batch Duration						
			-	-		•		

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION III - Industrial and Commercial Wastewater

B. Outfall Information

PLEASE TYPE OR PRINT

FACILITY NAME	NPDES PERMIT NUMBER	OUTFALL NUMBER
Former Plainwell Impoundment	N/A	003
2. PROCESS STREAMS CONTRIBUTING TO OUTFALL DISCHARGE		
Federal Regulations require that different industries report different info determine the applicable federal regulations for this facility. An abbrevia section of the Appendix. Applicants are required to provide the name an production-based limits must report an estimated annual production rate regulated under federal categorical standards, the applicant is required to the discharge. To submit additional information, see Page ii, Item 3.	ated list is in the Summary of Information to be rep nd the SIC or the NAICS code of each process at the e for the next five years or the life of the permit. If	ported by Industry Type ne facility. Facilities with the wastestream is not
PROCESS INFORMATION A. Name of the process contributing to the discharge: Ponded water, was	ash water, excavation water, and storm water	
B. SIC or NAICS code: N/A		
C. Describe the process and provide measures of production: Process waters and collected storm water will be treated by settling, filtration, locations will be determined during construction.	and carbon adsorption and discharged to the Kalam	nazoo River. The discharge
PROCESS INFORMATION A. Name of the process contributing to the discharge:		
B. SIC or NAICS code:	·	
C. Describe the process and provide measures of production:		
PROCESS INFORMATION A. Name of the process contributing to the discharge:		
B. SIC or NAICS code:		
C. Describe the process and provide measures of production:		
PROCESS INFORMATION A. Name of the process contributing to the discharge: B. SIC or NAICS code:	,	
C. Describe the process and provide measures of production:		
PROCESS INFORMATION A. Name of the process contributing to the discharge: B. SIC or NAICS code:		
C. Describe the process and provide measures of production:	•	

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION III - Industrial and Commercial Wastewater

B. Outfall Information

INSTRUCTIONS FOR COMPLETING SECTION III B. OUTFALL INFORMATION, ITEM B.3.

In accordance with 40 CFR 122.21, all applicants are required to report CBOD₅, Chemical Oxygen Demand, Total Organic Carbon, Total Suspended Solids, Ammonia as N, Temperature (both summer and winter), and pH. The applicant may, however, request that reporting of data for one or more of these required parameters be waived. Such requests shall be supported by adequate rationale. The request shall be included as an attachment to this Application.

Report available discharge data for the parameters listed in Section III.B.3 of this Application. Actual data shall be provided for existing discharges, and expected or estimated data provided for proposed discharges. Please include an explanation if "Pollution Prevention Measures" are expected to reduce pollutants. Certain types of discharges shall provide a minimum of analytical test date for specific parameters. See "Minimum Analytical Testing Requirements for Various Discharge Requests" in the Appendix for a list of specific discharge types and their specific parameters (e.g., noncontact cooling waters, petroleum groundwater cleanups, etc.). For assistance in determining the appropriate parameters to report, contact the Permits Section. Data for other conventional parameters not listed in Section III.B.3. can be reported on the blank spaces provided. To submit additional information, see Page ii, item 3.

Report all data in the units provided and for the sample types specified in the table. If more than one option is available, check the appropriate box. The units are as follows: $\mu g/I = \text{micrograms per liter}$, $\mu g/I = \text{milligrams per liter}$, $\mu g/I = \text{micrograms per liter}$, $\mu g/I = \text{m$

To analyze for pH, temperature, total residual chlorine, oil and grease, and fecal coliform, use **Grab Samples** unless other frequency-sample type analyses are available. To analyze for total BOD₅, total phosphorus, COD, TOC, ammonia nitrogen, and total suspended solids, use **24-hour composite samples** unless other frequency-sample type analyses are available.

For two or more substantially identical outfalls, permission may be requested from the appropriate district office to sample and analyze only one outfall and submit the results of the analysis for other substantially identical outfalls. If the request is granted by the district office, on a separate sheet attached to the Application, identify which outfall was sampled and describe why the outfalls which were not sampled are substantially identical to the outfall which was sampled. See the Appendix, "Definitions" Section for sampling definitions, including "maximum daily concentration" and "maximum monthly concentration."

REPORTING OF INTAKE DATA

Applicants attempting to demonstrate eligibility for "net" effluent limitations for one or more pollutants are required to report intake water data. A "net" effluent limitation is determined by subtracting the average level of the pollutant(s) present in the intake waters from the average level of the pollutant(s) remaining after treatment. NPDES regulations allow net limitations only in certain circumstances (see 40 CFR, Part 122.45(g)). To demonstrate eligibility, report the average concentration and/or mass of the results of the analyses on the intake water. If the intake water is treated <u>prior</u> to use, report the intake concentrations and/or mass after treatment. In addition to the analytical results, the following information shall be submitted for each parameter:

- a) A statement that the intake water is drawn from the body of water into which the discharge is made. If the discharge is not to the same body of water from which the water is withdrawn, the facility is not eligible for net limitations.
- b) A statement of the extent to which the level of the pollutant in the intake water is reduced by treatment of the wastewater. Limitations for the net removal of pollutants are adjusted only to the extent that the pollutant is not removed.
- When applicable (for example, when the pollutant represents a class of compounds, e.g., BOD₅, TSS, etc.), a demonstration of the extent to which the pollutants in the intake vary physically, chemically, and biologically from the pollutants contained in the discharge. Limitations are adjusted only to the extent that the concentrations of the intake pollutants vary from the discharged pollutants.

Note: Applicants for groundwater remediation discharges should also report the intake characteristics of the contaminated groundwater.

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION III - Industrial and Commercial Wastewater

PLEASE TYPE OR PRINT					
FACILITY NAME	No. 1 To 1	NPDES PERMIT NU	JMBER		ALL NUMBER
Former Plainwell Impoundment		N/A	003		
2. EFFLUENT CHARACTERISTICS - CONVENTICE Existing facilities are required to report data from eff alternate test procedures for any parameter listed New facilities are required to provide estimated efflue Appendix for sampling definitions, including "maximum Check this box if additional information is included Please Note: Rule 323.1062 allows the use of either been disinfected. The Department will use the indicate Use Escherichia Coliform Bacteria as an indicator of dis	duent analysis for the below have been apent concentrations for a daily concentration as an attachment. The Escherichia Coliformor selected below in of disinfection.	pparameters listed be pproved, see Page reproved, see Page reproved the parameters lister and "maximum moto submit additional and Bacteria or Fecal Company of the page 19 pag	elow. For analytica ii, Item 5 ed below. (See the nthly concentration.) information, see Pagoliform Bacteria as a	Definition Section be ii, Item 3.	in the
	Maximum	Maximum			
	Monthly	Daily		Number of	
Parameter	Concentration	Concentration	Units	Analyses	Sample Type
Biochemical Oxygen Demand – five day (BOD₅)			mg/l		☐ Grab ☐ 24 Hr Comp
Chemical oxygen demand (COD)			mg/l	The state of the s	☐ Grab☐ 24 Hr Comp
Total organic carbon (TOC)			mg/l		☐ Grab☐ 24 Hr Comp
Ammonia Nitrogen (as N)			mg/l		☐ Grab☐ 24 Hr Comp
Total Suspended Solids			mg/l		☐ Grab☐ 24 Hr Comp
Total Dissolved Solids			mg/l		☐ Grab☐ 24 Hr Comp
Total Phosphorus (as P)			mg/l	** **	☐ Grab☐ 24 Hr Comp
Fecal Coliform Bacteria (report geometric means)		maximum 7-day	counts/100ml		Grab
Escherichia Coliform Bacteria (report geometric means)		maximum 7-day	counts/100 ml		Grab
Total Residual Chlorine	Section 1		□ mg/l □ μg/l		Grab
Dissolved Oxygen	Do Not Use	minimum daily	mg/l		Grab 24 Hr Comp
pH (report maximum and minimum of individual samples)	minimum	maximum	standard units		☐ Grab☐ 24 Hr Comp
Temperature, Summer			□°F □°C		☐ Grab ☐ 24 Hr Comp
Temperature, Winter			□°F □°C		☐ Grab ☐ 24 Hr Comp
Oil & Grease			mg/l		Grab
					☐ Grab ☐ 24 Hr Comp
		N VI	40.74	3.77	☐ Grab ☐ 24 Hr Comp
			- B1 - 4 p - 1		☐ Grab ☐ 24 Hr Comp

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION III - Industrial and Commercial Wastewater

B. Outfall Information

PLEASE TYPE OR PRINT

FACILITY NAME	NPDES PERMIT NUMBER	OUTFALL NUMBER
Former Plainwell Impoundment	N/A	003

Note: For questions on this page, Tables 1-5 are found in the Appendix.

4. PRIMARY INDUSTRY PRIORITY POLLUTANT INFORMATION

Existing primary industries that discharge process wastewater are required to submit the results of at least one effluent analysis for selected organic pollutants identified in Table 2 (as determined from Table 1, Testing Requirements for Organic Toxic Pollutants by Industrial Category), and all of the pollutants identified in Table 3. Existing primary industries are required to also provide the results of at least one effluent analysis for any other chemical listed in Table 2 known or believed to be present in facility effluent.

In addition, submit the results of all other effluent analyses performed within the last five years for any chemical listed in Tables 2 and 3.

New primary industries that propose to discharge process wastewater are required to provide an estimated effluent concentration for any chemical listed in Tables 2 and 3 expected to be present in facility effluent.

5. DIOXIN AND FURAN CONGENER INFORMATION

Existing industries that use or manufacture 2,3,5-trichlorophenoxy acetic acid (2,4,5-T); 2- (2,3,5-trichlorophenoxy) propanoic acid, (Silvex, 2,3,5-TP); 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon); 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothionate (Ronnel); 2,4,5-trichlorophenol (TCP); or hexachlorophrene (HCP), or knows or has reason to believe that 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) is present in facility effluent, are required to submit the results of at least one effluent analysis for the dioxin and furan congeners listed in Table 6. All effluent analyses for dioxin and furan congeners shall be conducted using EPA Method 1613.

In addition, submit the results of all other effluent analyses performed within the last five years for any dioxin and furan congener listed in Table 6.

New industries that expect to use or manufacture 2,3,5-trichlorophenoxy acetic acid (2,4,5-T); 2- (2,3,5-trichlorophenoxy) propanoic acid (Silvex, 2,3,5-TP); 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon); 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothionate (Ronnel); 2,4,5-trichlorophenol (TCP) or hexachlorophene (HCP), or knows or has reason to believe that 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) is present in facility effluent shall provide estimated effluent concentrations for the dioxin and furan congeners listed in Table 6.

6. OTHER INDUSTRY PRIORITY POLLUTANT INFORMATION

Existing secondary industries, or existing primary industries that discharge non-process wastewater, are required to submit the results of at least one effluent analysis for any chemical listed in Tables 2 and 3 known or believed to be present in facility effluent.

In addition, submit the results of all other effluent analyses performed within the last five years for any chemical listed in Tables 2 and 3.

New secondary industries, or new primary industries that propose to discharge non-process wastewater, are required to provide an estimated effluent concentration for any chemical listed in Tables 2 and 3 expected to be present in facility effluent.

7. ADDITIONAL TOXIC AND OTHER POLLUTANT INFORMATION

All existing industries, regardless of discharge type, are required to provide the results of at least one analysis for any chemical listed in Table 4 known or believed to be present in facility effluent, and a measured or estimated effluent concentration for any chemical listed in Table 5 known or believed to be present in facility effluent. In addition, submit the results of any effluent analysis performed within the last five years for any chemical listed in Tables 4 and 5.

New industries, regardless of discharge type, are required to provide an estimated effluent concentration for any chemical listed in Tables 4 and 5 expected to be present in facility effluent.

8. INJURIOUS CHEMICALS NOT PREVIOUSLY REPORTED

New or existing industries, regardless of discharge type, are required to provide a measured or estimated effluent concentration for any toxic or otherwise injurious chemicals known or believed to be present in facility effluent that have not been previously identified in this Application. Quantitative effluent data that are less than five years old for these chemicals shall be reported.

NOTE: All effluent data submitted in response to questions 4, 5, 6, 7, and 8 above should be recorded on Page 30. To submit additional information, see Page ii, Item 3. If the effluent concentrations are estimated, place an "E in the "Analytical Method" column. The following fields shall be completed for each data row: Parameter, CAS No., Concentration(s), Sample Type, Analytical Method, Quantification Level, and Detection Level. For analytical test requirements, see Page ii, Item 5.

If Alternate Test Procedures have been approved for any parameter listed above (Items 4 through 8), see Page ii, Item 5 for additional instructions.

Michigan Department of Environmental Quality- Water Bureau WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION III - Industrial and Commercial Wastewater

FACILITY NAME Former Plainwell Impoundment								NPDES PERMIT NUMBER OUTFALL NUM N/A 003				/BER			
SAMP	LE DATE >		36												
PARAMETER	CAS No.	Conc. (ug/l)	Conc. (ug/l)	Conc. (ug/l)	Conc. (ug/l)	Sample Type	Analytic Method	QL	DL						
			185									30			
	- B-E			7											
					2.42.										
										187					
						,									
														1 - 1	
				\$ L .				2 3 7 3		200		1			
		•								200					
									5 5						
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					E . 3										
						3					B.				

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION III - Industrial and Commercial Wastewater

B. Outfall Information

ы	EASE	TYPE	OR	PRIN	Г

ACILITY NAME prmer Plainwell Impoundment	NPDES PERMIT NUMBER N/A	OUTFALL NUMBER 003
WATER TREATMENT ADDITIVES Water treatment additives include any material that is additived the water.		
Approvals of water treatment additives are authorized by constitute approval of the water treatment additives that are		nce of an NPDES permit does not
A. Are there water treatment additives in the discharge fro	m this facility?	* - 2
☐ Yes.		
☑ No. Proceed to Question 10.		
B. Have these water treatment additives been previously a	approved?	•
Yes. Submit a list of the previously-approved water tre Item Ç., Items 1-8 shall be updated if it has changed si	, , ,	oved. The information listed in
☐ No. Continue with Item C.		
Submit a list of water treatment additives that are or ma below for each additive.	ay be discharged from the facility. Applicants are require	ed to submit the information listed
0. The water treatment additive Material Safety Data Sh	eet.	
0. The proposed water treatment additive discharge con	centration.	
0. The discharge frequency (i.e., number of hours per da	ay, week, etc.).	·
0. The outfall from which the water treatment additive is	to be discharged.	
The type of removal treatment, if any, that the water to	reatment additive receives prior to discharge.	
0. The water treatment additive function (i.e., microbiocic	de, flocculant, etc.).	
0. A 48-hour LC50 or EC50 for a North American freshw	ater planktonic crustacean (either Ceriodaphnia sp., Da	phnia sp., or Simocephalus sp.).
	ican freshwater aquatic species (other than a planktonic lity Standards. Examples of tests that would meet this r	·
The required toxicity information (described in Items 7 and listed on the DEQ's Internet page. To access that inform column under Water Quality Monitoring , click on "Ass Treatment Additive List." If you intend to use one of the w to be submitted to the WD.	nation, go to http://www.michigan.gov/deq, click on "Silsessment of Michigan Waters." Under the Informat	e Map," at the bottom of the right ion heading, click on the "Water
Note: The availability of toxicity information for a water trea	atment additive does not constitute approval to discharg	e the water treatment additive.
). WHOLE EFFLUENT TOXICITY TESTS		
Have any acute or chronic WET tests been conducted on years? If yes, identify the tests and summarize the results For assistance in WET testing, see "Whole Effluent Toxicity."	on a separate sheet, unless the test has been submitte	
1. COMPREHENSIVE ANIMAL FEEDING OPERATION (CA	FO) INFORMATION. To be completed by CAFO's only	
The applicant shall provide: Specific information about the and total capacity for CAFO waste storage. CAFO was available for land application of CAFO waste. Estimat	ste storage structure design. The total number of ac	res under control of the applicant

This completes Section III. Return the completed Application (Sections I and III, and any attachments) to one of the addresses on Page ii of this Application. If assistance is needed to complete this Application, contact the Permits Section.

production area and all land application areas. For additional information see "CAFO Guidance and Requirements" in the Appendix..

transferred to other persons per year. A list and map(s) showing the location of all land application fields. All potential receiving waters for both the

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION III - Industrial and Commercial Wastewater

B. Outfall Information

Complete a separate Section III.B. - Outfall Information (Pages 25-31) - for each outfall at the facility. Make copies of this blank section of the Application as necessary for additional outfalls.

PLEASE TYPE OR PRINT **FACILITY NAME** NPDES PERMIT NUMBER OUTFALL NUMBER Former Plainwell Impoundment OUTFALL INFORMATION - Instructions for this item are on Page 23. **HUC Code** Watershed Kalamazoo 04050003 Receiving Water В Kalamazoo River Township C. Allegan 1/4, 1/4 Private (French) Land Claim) Town Range Section D. Latitude Longitude E. Type of Wastewater Discharged (check all that apply to this outfall): ☐ Contact Cooling ·☐ Hydrostatic Pressure Test ■ Noncontact Cooling Water ☑ Process Wastewater ☐ Sanitary Wastewater ☐ Storm Water - not regulated Storm Water - regulated ☐ Storm water subject to effluent guidelines (indicate under which category): ☑ Other -- specify (see "Table 8 - Other Common Types of Wastewater" - in the Appendix) Cofferdam dewatering What is the Maximum Design Flow Rate for this outfall: 510 MGD What is the Maximum Authorized Discharge Flow for Seasonal Dischargers 103 MGY (Continue with Item I) this outfall for the next five years? Continuous Dischargers _ MGD (Continue with Item J) Seasonal Discharge: List the discharge periods (by month) and the volume discharged in the space provided below. Annual Total From Through Discharge Volume May 2008 October 2008 103 MG From Through Discharge Volume From Through Discharge Volume From Through Discharge Volume Continuous Discharge: How often is there a discharge from this outfall (on the average)? Batch dischargers are required to provide the following additional information: ·□ No Is there effluent flow equalization? ☐ Yes Batch Peak Flow Rate: Number of batches discharged per day: Minimum Average Maximum Batch Volume (gallons) Batch Duration (minutes)

 $\mathcal{L}^{(k)} = \mathbb{C} \times \mathbb{R}^{k} \times$

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION III - Industrial and Commercial Wastewater

PLEASE TYPE OR PRINT		
FACILITY NAME	NPDES PERMIT NUMBER	OUTFALL NUMBER
Former Plainwell Impoundment	N/A	004
2. PROCESS STREAMS CONTRIBUTING TO OUTFALL DISCHARGE Federal Regulations require that different industries report different info determine the applicable federal regulations for this facility. An abbrevi section of the Appendix. Applicants are required to provide the name ar production-based limits must report an estimated annual production rate regulated under federal categorical standards, the applicant is required the discharge. To submit additional information, see Page ii, Item 3.	iated list is in the Summary of Information to be re nd the SIC or the NAICS code of each process at the e for the next five years or the life of the permit.	ported by Industry Type ne facility. Facilities with the wastestream is not
PROCESS INFORMATION A. Name of the process contributing to the discharge: Ponded water, w	ash water, excavation water, and storm water	
B. SIC or NAICS code: N/A	•	
C. Describe the process and provide measures of production: Process waters and collected storm water will be treated by settling, filtration, locations will be determined during construction.	and carbon adsorption and discharged to the Kalar	nazoo River. The discharge
PROCESS INFORMATION A. Name of the process contributing to the discharge:		
B. SIC or NAICS code:		
C. Describe the process and provide measures of production:		
PROCESS INFORMATION A. Name of the process contributing to the discharge:		
B. SIC or NAICS code:		
C. Describe the process and provide measures of production:		
PROCESS INFORMATION A. Name of the process contributing to the discharge:	· · · · · · · · · · · · · · · · · · ·	<u> </u>
B. SIC or NAICS code:		
C. Describe the process and provide measures of production:		
PROCESS INFORMATION A. Name of the process contributing to the discharge:		
B. SIC or NAICS code:		
C. Describe the process and provide measures of production:		

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION III - Industrial and Commercial Wastewater

B. Outfall Information

INSTRUCTIONS FOR COMPLETING SECTION III B. OUTFALL INFORMATION, ITEM B.3.

In accordance with 40 CFR 122.21, all applicants are required to report CBOD₅, Chemical Oxygen Demand, Total Organic Carbon, Total Suspended Solids, Ammonia as N, Temperature (both summer and winter), and pH. The applicant may, however, request that reporting of data for one or more of these required parameters be waived. Such requests shall be supported by adequate rationale. The request shall be included as an attachment to this Application.

Report available discharge data for the parameters listed in Section III.B.3 of this Application. Actual data shall-be provided for existing discharges, and expected or estimated data provided for proposed discharges. Please include an explanation if "Pollution Prevention Measures" are expected to reduce pollutants. Certain types of discharges shall provide a minimum of analytical test date for specific parameters. See "Minimum Analytical Testing Requirements for Various Discharge Requests" in the Appendix for a list of specific discharge types and their specific parameters (e.g., noncontact cooling waters, petroleum groundwater cleanups, etc.). For assistance in determining the appropriate parameters to report, contact the Permits Section. Data for other conventional parameters not listed in Section III.B.3. can be reported on the blank spaces provided. To submit additional information, see Page ii, item 3.

Report all data in the units provided and for the sample types specified in the table. If more than one option is available, check the appropriate box. The units are as follows: $\mu g/l = \text{micrograms per liter}$, $\mu g/l = \text{m$

To analyze for pH, temperature, total residual chlorine, oil and grease, and fecal coliform, use **Grab Samples** unless other frequency-sample type analyses are available. To analyze for total BOD₅, total phosphorus, COD, TOC, ammonia nitrogen, and total suspended solids, use **24-hour composite samples** unless other frequency-sample type analyses are available.

For two or more substantially identical outfalls, permission may be requested from the appropriate district office to sample and analyze only one outfall and submit the results of the analysis for other substantially identical outfalls. If the request is granted by the district office, on a separate sheet attached to the Application, identify which outfall was sampled and describe why the outfalls which were not sampled are substantially identical to the outfall which was sampled. See the Appendix, "Definitions" Section for sampling definitions, including "maximum daily concentration" and "maximum monthly concentration."

REPORTING OF INTAKE DATA

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- a) A statement that the intake water is drawn from the body of water into which the discharge is made. If the discharge is not to the same body of water from which the water is withdrawn, the facility is not eligible for net limitations.
- b) A statement of the extent to which the level of the pollutant in the intake water is reduced by treatment of the wastewater. Limitations for the net removal of pollutants are adjusted only to the extent that the pollutant is not removed.
- c) When applicable (for example, when the pollutant represents a class of compounds, e.g., BOD₅, TSS, etc.), a demonstration of the extent to which the pollutants in the intake vary physically, chemically, and biologically from the pollutants contained in the discharge. Limitations are adjusted only to the extent that the concentrations of the intake pollutants vary from the discharged pollutants.

Note: Applicants for groundwater remediation discharges should also report the intake characteristics of the contaminated groundwater.

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION III - Industrial and Commercial Wastewater

PLEASE TYPE OR PRINT					5 750 H L L & L L
FACILITY NAME	China Carlo	NPDES PERMIT NU	IMBER		ALL NUMBER
Former Plainwell Impoundment		N/A		004	
3. EFFLUENT CHARACTERISTICS - CONVENTIO Existing facilities are required to report data from eff alternate test procedures for any parameter listed New facilities are required to provide estimated efflue Appendix for sampling definitions, including "maximum Check this box if additional information is included Please Note: Rule 323.1062 allows the use of either been disinfected. The Department will use the indicate Use Escherichia Coliform Bacteria as an indicator of disi	luent analysis for the below have been a ent concentrations for a daily concentration as an attachment. Escherichia Colifornor selected below in of disinfection.	e parameters listed b pproved, see Page or the parameters liste " and "maximum mo To submit additional in Bacteria or Fecal C	elow. For analytica ii, Item 5 ed below. (See the Inthly concentration." information, see Pag coliform Bacteria as a	al test requireme Definition Section) pe ii, Item 3. an indicator that e	in the
	Maximum	Maximum			
	Monthly	Daily		Number of	
Parameter	Concentration	Concentration	Units	Analyses	Sample Type
Biochemical Oxygen Demand – five day (BOD ₅)			mg/l		☐ Grab ☐ 24 Hr Comp
Chemical oxygen demand (COD)			mg/l		☐ Grab☐ 24 Hr Comp
Total organic carbon (TOC)			mg/l		☐ Grab☐ 24 Hr Comp
Ammonia Nitrogen (as N)			mg/l		☐ Grab☐ 24 Hr Comp
Total Suspended Solids			mg/l		Grab 24 Hr Comp
Total Dissolved Solids			mg/l		☐ Grab☐ 24 Hr Comp
Total Phosphorus (as P)			mg/l	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	☐ Grab☐ 24 Hr Comp
Fecal Coliform Bacteria (report geometric means)		maximum 7-day	counts/100ml		Grab
Escherichia Coliform Bacteria (report geometric means)		maximum 7-day	counts/100 ml		Grab
Total Residual Chlorine			□ mg/l □ μg/l		Grab
Dissolved Oxygen	Do Not Use	minimum daily	mg/l		Grab 24 Hr Comp
pH (report maximum and minimum of individual samples)	minimum	maximum	standard units		Grab 24 Hr Comp
Temperature, Summer			·□°F □°C		☐ Grab☐ 24 Hr Comp
Temperature, Winter			□℉□℃		☐ Grab☐ 24 Hr Comp
Oil & Grease			mg/l		Grab
					☐ Grab☐ 24 Hr Comp
					☐ Grab ☐ 24 Hr Comp
					☐ Grab ☐ 24 Hr Comp

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION III - Industrial and Commercial Wastewater

B. Outfall Information

PLEASE TYPE OR PRINT

FACILITY NAME	NPDES PERMIT NUMBER	OUTFALL NUMBER	
Former Plainwell Impoundment	N/A	002	٠

Note: For questions on this page, Tables 1-5 are found in the Appendix.

4. PRIMARY INDUSTRY PRIORITY POLLUTANT INFORMATION

Existing primary industries that discharge process wastewater are required to submit the results of at least one effluent analysis for selected organic pollutants identified in Table 2 (as determined from Table 1, Testing Requirements for Organic Toxic Pollutants by Industrial Category), and all of the pollutants identified in Table 3. Existing primary industries are required to also provide the results of at least one effluent analysis for any other chemical listed in Table 2 known or believed to be present in facility effluent.

In addition, submit the results of all other effluent analyses performed within the last five years for any chemical listed in Tables 2 and 3.

New primary industries that propose to discharge process wastewater are required to provide an estimated effluent concentration for any chemical listed in Tables 2 and 3 expected to be present in facility effluent.

5. DIOXIN AND FURAN CONGENER INFORMATION

Existing industries that use or manufacture 2,3,5-trichlorophenoxy acetic acid (2,4,5-T); 2- (2,3,5-trichlorophenoxy) propanoic acid, (Silvex, 2,3,5-TP); 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon); 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothionate (Ronnel); 2,4,5-trichlorophenol (TCP); or hexachlorophrene (HCP), or knows or has reason to believe that 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) is present in facility effluent, are required to submit the results of at least one effluent analysis for the dioxin and furan congeners listed in Table 6. All effluent analyses for dioxin and furan congeners shall be conducted using EPA Method 1613.

In addition, submit the results of all other effluent analyses performed within the last five years for any dioxin and furan congener listed in Table 6.

New industries that expect to use or manufacture 2,3,5-trichlorophenoxy acetic acid (2,4,5-T); 2- (2,3,5-trichlorophenoxy) propanoic acid (Silvex, 2,3,5-TP); 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon); 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothionate (Ronnel); 2,4,5-trichlorophenol (TCP) or hexachlorophrene (HCP), or knows or has reason to believe that 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) is present in facility effluent shall provide estimated effluent concentrations for the dioxin and furan congeners listed in Table 6.

6. OTHER INDUSTRY PRIORITY POLLUTANT INFORMATION

Existing secondary industries, or existing primary industries that discharge non-process wastewater, are required to submit the results of at least one effluent analysis for any chemical listed in Tables 2 and 3 known or believed to be present in facility effluent.

In addition, submit the results of all other effluent analyses performed within the last five years for any chemical listed in Tables 2 and 3.

New secondary industries, or new primary industries that propose to discharge non-process wastewater, are required to provide an estimated effluent concentration for any chemical listed in Tables 2 and 3 expected to be present in facility effluent.

7. ADDITIONAL TOXIC AND OTHER POLLUTANT INFORMATION

All existing industries, regardless of discharge type, are required to provide the results of at least one analysis for any chemical listed in Table 4 known or believed to be present in facility effluent, and a measured or estimated effluent concentration for any chemical listed in Table 5 known or believed to be present in facility effluent. In addition, submit the results of any effluent analysis performed within the last five years for any chemical listed in Tables 4 and 5.

New industries, regardless of discharge type, are required to provide an estimated effluent concentration for any chemical listed in Tables 4 and 5 expected to be present in facility effluent.

8. INJURIOUS CHEMICALS NOT PREVIOUSLY REPORTED

New or existing industries, regardless of discharge type, are required to provide a measured or estimated effluent concentration for any toxic or otherwise injurious chemicals known or believed to be present in facility effluent that have not been previously identified in this Application. Quantitative effluent data that are less than five years old for these chemicals shall be reported.

NOTE: All effluent data submitted in response to questions 4, 5, 6, 7, and 8 above should be recorded on Page 30. To submit additional information, see Page ii, Item 3. If the effluent concentrations are estimated, place an "E in the "Analytical Method" column. The following fields shall be completed for each data row: Parameter, CAS No., Concentration(s), Sample Type, Analytical Method, Quantification Level, and Detection Level. For analytical test requirements, see Page ii, Item 5.

If Alternate Test Procedures have been approved for any parameter listed above (Items 4 through 8), see Page ii, Item 5 for additional instructions.

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION III - Industrial and Commercial Wastewater

PLEASE TYPE OR FACILITY NAME Former Plainwell Im								NPDES N/A	PERMIT N	UMBER			OUTFALL NUMBER 004		
SAMP	LE DATE -														
PARAMETER	CAS No.	Conc. (ug/l)	Sample Type	Analytic Method	QL	DL									
4.4%															
			10 K. N.												
				1											
								1							
					2.2						-				
									We yo						<u> </u>
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	15/11/25								7 47						
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					Landau Control									ide.	
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WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION III - Industrial and Commercial Wastewater

B. Outfall Information

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FACILITY NAME	NPDES PERMIT NUMBER	OUTFALL NUMBER
Former Plainwell Impoundment	N/A	004
9. WATER TREATMENT ADDITIVES		•
Water treatment additives include any material that is ad treat the water	lded to water used at the facility or to wastewater gen	erated by the facility to condition or
Approvals of water treatment additives are authorized by constitute approval of the water treatment additives that a	•	ance of an NPDES permit does not
A. Are there water treatment additives in the discharge from	om this facility?	
☐ Yes.		·
☑ No. Proceed to Question 10.	. •	•
B. Have these water treatment additives been previously	approved?	
Yes. Submit a list of the previously-approved water to ltem C., Items 1-8 shall be updated if it has changed s	, ,	roved. The information listed in
☐ No. Continue with Item C.	•	•
 C. Submit a list of water treatment additives that are or m below for each additive. 	ay be discharged from the facility. Applicants are requi	red to submit the information listed
The water treatment additive Material Safety Data St	neet.	•
The proposed water treatment additive discharge col	ncentration.	
3. The discharge frequency (i.e., number of hours per c	lay, week, etc.).	
4. The outfall from which the water treatment additive is	s to be discharged.	
5. The type of removal treatment, if any, that the water	treatment additive receives prior to discharge.	·
6. The water treatment additive function (i.e., microbioc	ide, flocculant, etc.).	
7. A 48-hour LC50 or EC50 for a North American fresh	water planktonic crustacean (either Ceriodaphnia sp., D	aphnia sp., or Simocephalus sp.).
	rican freshwater aquatic species (other than a plankton ality Standards. Examples of tests that would meet this	· · · · · · · · · · · · · · · · · · ·
The required toxicity information (described in Items 7 an listed on the DEQ's Internet page. To access that inforcolumn under Water Quality Monitoring , click on "As Treatment Additive List." If you intend to use one of the vito be submitted to the WD.	mation, go to http://www.michigan.gov/deq, click on "Sesessment of Michigan Waters." Under the Informa	Site Map," at the bottom of the right ation heading, click on the "Water
Note: The availability of toxicity information for a water tre	atment additive does not constitute approval to dischar	ge the water treatment additive.
10. WHOLE EFFLUENT TOXICITY TESTS		
Have any acute or chronic WET tests been conducted or years? If yes, identify the tests and summarize the result. For assistance in WET testing, see "Whole Effluent Toxici	s on a separate sheet, unless the test has been submit	
11. COMPREHENSIVE ANIMAL FEEDING OPERATION (CA	AFO) INFORMATION. To be completed by CAFO's onl	у
The applicant shall provide: Specific information about the and total capacity for CAFO waste storage. CAFO wasteavailable for land application of CAFO waste. Estimater application of CAFO waste.	ste storage structure design. The total number of a ted amounts of CAFO waste generated per year.	cres under control of the applicant Estimated amounts of CAFO waste

This completes Section III. Return the completed Application (Sections I and III, and any attachments) to one of the addresses on Page ii of this Application. If assistance is needed to complete this Application, contact the Permits Section.

production area and all land application areas. For additional information see "CAFO Guidance and Requirements" in the Appendix..

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION III - Industrial and Commercial Wastewater

B. Outfall Information

Complete a separate Section III.B. - Outfall Information (Pages 25-31) - for each outfall at the facility. Make copies of this blank section of the Application as necessary for additional outfalls.

PLEASE TYPE OR PRINT FACILITY NAME NPDES PERMIT NUMBER **OUTFALL NUMBER** Former Plainwell Impoundment OUTFALL INFORMATION - Instructions for this item are on Page 23. **HUC Code** Watershed Kalamazoo 04050003 Receiving Water B. Kalamazoo River Township Allegan 1/4. 1/4 Town Private (French) Land Claim) Range Section D. Latitude Longitude E. Type of Wastewater Discharged (check all that apply to this outfall): ☐ Contact Cooling ☐ Groundwater Cleanup ☐ Hydrostatic Pressure Test ☐ Noncontact Cooling Water. □ Process Wastewater ☐ Sanitary Wastewater ☐ Storm Water - not regulated Storm Water - regulated ☐ Storm water subject to effluent guidelines (indicate under which category): ☐ Other – specify (see "Table 8 - Other Common Types of Wastewater" - in the Appendix) What is the Maximum Design Flow Rate for this outfall: 0.038 to 0.075 MGD What is the Maximum Authorized Discharge Flow for Seasonal Dischargers 1.8 MGY (Continue with Item I) this outfall for the next five years? Continuous Dischargers MGD (Continue with Item J) Seasonal Discharge: List the discharge periods (by month) and the volume discharged in the space provided below. Through Discharge Volume **Annual Total** June 2008 October 2008 1.8 MG. From Through Discharge Volume From Through Discharge Volume From Through Discharge Volume Continuous Discharge: How often is there a discharge from this outfall (on the average)? __ Hours/Day _ Batch dischargers are required to provide the following additional information: Is there effluent flow equalization? ☐ Yes Batch Peak Flow Rate: Number of batches discharged per day: Minimum Maximum Batch Volume (gallons) Batch Duration (minutes)

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION III - Industrial and Commercial Wastewater

B. Outfall Information

PLEASE TYPE OR PRINT

FACILITY NAME	NPDES PERMIT NUMBER	OUTFALL NUMBER
Former Plainwell Impoundment	N/A	005
2. PROCESS STREAMS CONTRIBUTING TO OUTFALL DISCHARGE Federal Regulations require that different industries report different info determine the applicable federal regulations for this facility. An abbrevi section of the Appendix. Applicants are required to provide the name al production-based limits must report an estimated annual production rat regulated under federal categorical standards, the applicant is required the discharge. To submit additional information, see Page ii, Item 3.	iated list is in the Summary of Information to be re nd the SIC or the NAICS code of each process at the e for the next five years or the life of the permit.	ported by Industry Type he facility. Facilities with f the wastestream is not
PROCESS INFORMATION A. Name of the process contributing to the discharge: Ponded water, w	vash water, excavation water, and storm water	
B. SIC or NAICS code: <u>N/A</u>		
C. Describe the process and provide measures of production: Process waters and collected storm water will be treated by settling, filtration, locations will be determined during construction.	and carbon adsorption and discharged to the Kalar	nazoo River. The discharge
PROCESS INFORMATION A. Name of the process contributing to the discharge:	·	•
B. SIC or NAICS code:		
C. Describe the process and provide measures of production:		
PROCESS INFORMATION A. Name of the process contributing to the discharge:		
B. SIC or NAICS code:		
C. Describe the process and provide measures of production:		
PROCESS INFORMATION A. Name of the process contributing to the discharge:		
B. SIC or NAICS code:		
C. Describe the process and provide measures of production:		:
PROCESS INFORMATION A. Name of the process contributing to the discharge:		
B. SIC or NAICS code:		
C. Describe the process and provide measures of production:		

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION III - Industrial and Commercial Wastewater

B. Outfall Information

INSTRUCTIONS FOR COMPLETING SECTION III B. OUTFALL INFORMATION, ITEM B.3.

In accordance with 40 CFR 122.21, all applicants are required to report CBOD₅, Chemical Oxygen Demand, Total Organic Carbon, Total Suspended Solids, Ammonia as N, Temperature (both summer and winter), and pH. The applicant may, however, request that reporting of data for one or more of these required parameters be waived. Such requests shall be supported by adequate rationale. The request shall be included as an attachment to this Application.

Report available discharge data for the parameters listed in Section III.B.3 of this Application. Actual data shall be provided for existing discharges, and expected or estimated data provided for proposed discharges. Please include an explanation if "Pollution Prevention Measures" are expected to reduce pollutants. Certain types of discharges shall provide a minimum of analytical test date for specific parameters. See "Minimum Analytical Testing Requirements for Various Discharge Requests" in the Appendix for a list of specific discharge types and their specific parameters (e.g., noncontact cooling waters, petroleum groundwater cleanups, etc.). For assistance in determining the appropriate parameters to report, contact the Permits Section. Data for other conventional parameters not listed in Section III.B.3. can be reported on the blank spaces provided. To submit additional information, see Page ii, item 3.

Report all data in the units provided and for the sample types specified in the table. If more than one option is available, check the appropriate box. The units are as follows: $\mu g/l = \text{micrograms per liter}$, mg/l = milligrams per liter, $^{\circ}F = \text{degrees Fahrenheit}$, $^{\circ}C = \text{degrees Celsius}$. For analytical test requirements, see Page ii, Item 5.

To analyze for pH, temperature, total residual chlorine, oil and grease, and fecal coliform, use **Grab Samples** unless other frequency-sample type analyses are available. To analyze for total BOD₅, total phosphorus, COD, TOC, ammonia nitrogen, and total suspended solids, use **24-hour composite samples** unless other frequency-sample type analyses are available.

For two or more substantially identical outfalls, permission may be requested from the appropriate district office to sample and analyze only one outfall and submit the results of the analysis for other substantially identical outfalls. If the request is granted by the district office, on a separate sheet attached to the Application, identify which outfall was sampled and describe why the outfalls which were not sampled are substantially identical to the outfall which was sampled. See the Appendix, "Definitions" Section for sampling definitions, including "maximum daily concentration" and "maximum monthly concentration."

REPORTING OF INTAKE DATA

Applicants attempting to demonstrate eligibility for "net" effluent limitations for one or more pollutants are required to report intake water data. A "net" effluent limitation is determined by subtracting the average level of the pollutant(s) present in the intake waters from the average level of the pollutant(s) remaining after treatment. NPDES regulations allow net limitations only in certain circumstances (see 40 CFR, Part 122.45(g)). To demonstrate eligibility, report the average concentration and/or mass of the results of the analyses on the intake water. If the intake water is treated <u>prior</u> to use, report the intake concentrations and/or mass after treatment. In addition to the analytical results, the following information shall be submitted for each parameter:

- a) A statement that the intake water is drawn from the body of water into which the discharge is made. If the discharge is not to the same body of water from which the water is withdrawn, the facility is not eligible for net limitations.
- b) A statement of the extent to which the level of the pollutant in the intake water is reduced by treatment of the wastewater. Limitations for the net removal of pollutants are adjusted only to the extent that the pollutant is not removed.
- c) When applicable (for example, when the pollutant represents a class of compounds, e.g., BOD₅, TSS, etc.), a demonstration of the extent to which the pollutants in the intake vary physically, chemically, and biologically from the pollutants contained in the discharge. Limitations are adjusted only to the extent that the concentrations of the intake pollutants vary from the discharged pollutants.

Note: Applicants for groundwater remediation discharges should also report the intake characteristics of the contaminated groundwater.

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION III - Industrial and Commercial Wastewater

B. Outfall Information

PLEASE TYPE OR PRINT	34 / La				
FACILITY NAME		NPDES PERMIT NU	JMBER	OUTFA	ALL NUMBER
Former Plainwell Impoundment		N/A	est This Library	005	
2. EFFLUENT CHARACTERISTICS - CONVENTION Existing facilities are required to report data from efficient alternate test procedures for any parameter listed New facilities are required to provide estimated efflue Appendix for sampling definitions, including "maximum Check this box if additional information is included Please Note: Rule 323.1062 allows the use of either been disinfected. The Department will use the indicate Use Escherichia Coliform Bacteria as an indicator Use Fecal Coliform Bacteria as an indicator of dis	fluent analysis for the below have been a ent concentrations for daily concentration as an attachment. The Escherichia Coliform for selected below in of disinfection.	e parameters listed be pproved, see Page re the parameters lister and "maximum mo submit additional a Bacteria or Fecal C	below. For analytica ii, Item 5 ed below. (See the inthly concentration.) information, see Pag Coliform Bacteria as	al test requireme Definition Section ') ge ii, Item 3. an indicator that e	in the
	Maximum	Maximum			
	Monthly	Daily		Number of	
Parameter	Concentration	Concentration	Units	Analyses	Sample Type
Biochemical Oxygen Demand – five day (BOD₅)			mg/l		☐ Grab ☐ 24 Hr Comp
Chemical oxygen demand (COD)			mg/l	er i kan desigeten D	☐ Grab☐ 24 Hr Comp
Total organic carbon (TOC)		J0	mg/l		☐ Grab☐ 24 Hr Comp
Ammonia Nitrogen (as N)			mg/l		☐ Grab☐ 24 Hr Comp
Total Suspended Solids			mg/l		☐ Grab ☐ 24 Hr Comp
Total Dissolved Solids			mg/l	A April	☐ Grab ☐ 24 Hr Comp
Total Phosphorus (as P)			mg/l		☐ Grab ☐ 24 Hr Comp
Fecal Coliform Bacteria (report geometric means)		maximum 7-day	counts/100ml	That is	Grab
Escherichia Coliform Bacteria (report geometric means)		maximum 7-day	counts/100 ml		Grab
Total Residual Chlorine		f ar	□ mg/l □ μg/l		Grab
Dissolved Oxygen	Do Not Use	minimum daily	mg/l	1 50	☐ Grab☐ 24 Hr Comp
pH (report maximum and minimum of individual samples)	minimum	maximum	standard units		☐ Grab☐ 24 Hr Comp
Temperature, Summer			□°F□°C		☐ Grab☐ 24 Hr Comp
Temperature, Winter			%%		☐ Grab ☐ 24 Hr Comp
Oil & Grease			mg/l		Grab
					☐ Grab ☐ 24 Hr Comp
			the second	15 100	☐ Grab ☐ 24 Hr Comp
	1				☐ Grab☐ 24 Hr Comp

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION III - Industrial and Commercial Wastewater

B. Outfall Information

PLEASE TYPE OR PRINT

FACILITY NAME	(e) 1.1	NPDES PERMIT NUMBER	OUTFALL NUMBER
Former Plainwell Impoundment		N/A	003

Note: For questions on this page, Tables 1-5 are found in the Appendix.

4. PRIMARY INDUSTRY PRIORITY POLLUTANT INFORMATION

Existing primary industries that discharge process wastewater are required to submit the results of at least one effluent analysis for <u>selected</u> organic pollutants identified in Table 2 (as determined from Table 1, <u>Testing Requirements for Organic Toxic Pollutants by Industrial Category</u>), and all of the pollutants identified in Table 3. Existing primary industries are required to also provide the results of at least one effluent analysis for any other chemical listed in Table 2 known or believed to be present in facility effluent.

In addition, submit the results of all other effluent analyses performed within the last five years for any chemical listed in Tables 2 and 3.

New primary industries that propose to discharge process wastewater are required to provide an estimated effluent concentration for any chemical listed in Tables 2 and 3 expected to be present in facility effluent.

5. DIOXIN AND FURAN CONGENER INFORMATION

Existing industries that use or manufacture 2,3,5-trichlorophenoxy acetic acid (2,4,5-T); 2- (2,3,5-trichlorophenoxy) propanoic acid, (Silvex, 2,3,5-TP); 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon); 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothionate (Ronnel); 2,4,5-trichlorophenol (TCP); or hexachlorophrene (HCP), or knows or has reason to believe that 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) is present in facility effluent, are required to submit the results of at least one effluent analysis for the dioxin and furan congeners listed in Table 6. All effluent analyses for dioxin and furan congeners shall be conducted using EPA Method 1613.

In addition, submit the results of all other effluent analyses performed within the last five years for any dioxin and furan congener listed in Table 6.

New industries that expect to use or manufacture 2,3,5-trichlorophenoxy acetic acid (2,4,5-T); 2- (2,3,5-trichlorophenoxy) propanoic acid (Silvex, 2,3,5-TP); 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon); 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothionate (Ronnel); 2,4,5-trichlorophenol (TCP) or hexachlorophrene (HCP), or knows or has reason to believe that 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) is present in facility effluent shall provide estimated effluent concentrations for the dioxin and furan congeners listed in Table 6.

6. OTHER INDUSTRY PRIORITY POLLUTANT INFORMATION

Existing secondary industries, or existing primary industries that discharge non-process wastewater, are required to submit the results of at least one effluent analysis for any chemical listed in Tables 2 and 3 known or believed to be present in facility effluent.

In addition, submit the results of all other effluent analyses performed within the last five years for any chemical listed in Tables 2 and 3.

New secondary industries, or new primary industries that propose to discharge non-process wastewater, are required to provide an estimated effluent concentration for any chemical listed in Tables 2 and 3 expected to be present in facility effluent.

7. ADDITIONAL TOXIC AND OTHER POLLUTANT INFORMATION

All existing industries, regardless of discharge type, are required to provide the results of at least one analysis for any chemical listed in Table 4 known or believed to be present in facility effluent, and a measured or estimated effluent concentration for any chemical listed in Table 5 known or believed to be present in facility effluent. In addition, submit the results of any effluent analysis performed within the last five years for any chemical listed in Tables 4 and 5.

New industries, regardless of discharge type, are required to provide an estimated effluent concentration for any chemical listed in Tables 4 and 5 expected to be present in facility effluent.

8. INJURIOUS CHEMICALS NOT PREVIOUSLY REPORTED

New or existing industries, regardless of discharge type, are required to provide a measured or estimated effluent concentration for any toxic or otherwise injurious chemicals known or believed to be present in facility effluent that have not been previously identified in this Application. Quantitative effluent data that are less than five years old for these chemicals shall be reported.

NOTE: All effluent data submitted in response to questions 4, 5, 6, 7, and 8 above should be recorded on Page 30. To submit additional information, see Page ii, Item 3. If the effluent concentrations are estimated, place an "E in the "Analytical Method" column. The following fields shall be completed for each data row: Parameter, CAS No., Concentration(s), Sample Type, Analytical Method, Quantification Level, and Detection Level. For analytical test requirements, see Page ii, Item 5.

If Alternate Test Procedures have been approved for any parameter listed above (Items 4 through 8), see Page ii, Item 5 for additional instructions.

WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION III - Industrial and Commercial Wastewater

A. Outfall Information

FACILITY NAME Former Plainwell Imp	ooundment							NPDES PERMIT NUMBER OUTF N/A 005						TFALL NUMBER			
SAMP	E DATE →				100												
PARAMETER	CAS No.	Conc. (ug/l)	Conc. (ug/l)	Conc. (ug/l)	Conc. (ug/l)	Sample Type	Analytic Method	QL	DL								
														1			
		-72															
													eff. N				
	17.7																
							55										
	- AT							3									
						5.											
	1 2		1		1					-4.							
					2 1												
					* 1			7.1.2					7				
													1				
															7		
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WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION III - Industrial and Commercial Wastewater

B. Outfall Information

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		NAME	NPDES PERMIT NUMBER	OUTFALL NUMBER
orm	er P	lainwell Impoundment	N/A	005
,	Wat	TER TREATMENT ADDITIVES er treatment additives include any material that is added tó water u t the water.	sed at the facility or to wastewater generated by t	he facility to condition or
		rovals of water treatment additives are authorized by the DEQ undestitute approval of the water treatment additives that are included in the	·	NPDES permit does not
	A. <i>A</i>	Are there water treatment additives in the discharge from this facility?	·	. *
		Yes.		
		No. Proceed to Question 10.		
	B. F	Have these water treatment additives been previously approved?		
		Yes. Submit a list of the previously-approved water treatment additivitem C., Items 1-8 shall be updated if it has changed since the previo		information listed in
		No. Continue with Item C.		,
		Submit a list of water treatment additives that are or may be discharge below for each additive.	ed from the facility. Applicants are required to subn	nit the information listed
	0.	The water treatment additive Material Safety Data Sheet.		
	0.	The proposed water treatment additive discharge concentration.	•	•
	0.	The discharge frequency (i.e., number of hours per day, week, etc.)		
	0.	The outfall from which the water treatment additive is to be discharg	ed.	
	0.	The type of removal treatment, if any, that the water treatment addit	ive receives prior to discharge.	
	0.	The water treatment additive function (i.e., microbiocide, flocculant,	etc.).	
	0.	A 48-hour LC50 or EC50 for a North American freshwater planktonic	c crustacean (either Ceriodaphnia sp., Daphnia sp.	or Simocephalus sp.).
	0.	The results of a toxicity test for one other North American freshwate requirement of Rule 323.1057(2)(a) of the Water Quality Standards for rainbow trout, bluegill, or fathead minnow.		•
	liste colu Trea	required toxicity information (described in Items 7 and 8 above) is conditioned on the DEQ's Internet page. To access that information, go to humn under Water Quality Monitoring , click on "Assessment of Nature at the Additive List." If you intend to use one of the water treatment e submitted to the WD.	nttp://www.michigan.gov/deq, click on "Site Map," a Michigan Waters." Under the Information head	at the bottom of the righting, click on the "Water
	Not	e: The availability of toxicity information for a water treatment additive	e does not constitute approval to discharge the water	er treatment additive.
0.	WH	HOLE EFFLUENT TOXICITY TESTS		
	yea	re any acute or chronic WET tests been conducted on any discharge rs? If yes, identify the tests and summarize the results on a separate assistance in WET testing, see "Whole Effluent Toxicity Test Guidang	sheet, unless the test has been submitted to the D	-
1:	CO	MPREHENSIVE ANIMAL FEEDING OPERATION (CAFO) INFORMA	ATION. To be completed by CAFO's only	
	and avai	applicant shall provide: Specific information about the number and total capacity for CAFO waste storage. CAFO waste storage stillable for land application of CAFO waste. Estimated amounts disferred to other persons per year. A list and map(s) showing the loc	ructure design. The total number of acres under of CAFO waste generated per year. Estimated a	control of the applicant imounts of CAFO waste

This completes Section III. Return the completed Application (Sections I and III, and any attachments) to one of the addresses on Page ii of this Application. If assistance is needed to complete this Application, contact the Permits Section.

production area and all land application areas. For additional information see "CAFO Guidance and Requirements" in the Appendix..

Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site Plainwell TCRA

Section I - Item 10. Water Flow Diagram and Narrative Description

In removal areas where the area of adjacent targeted floodplain soils is insufficient to contain drainage operations, the excavated wet sediments will be hauled to facilities designed for gravity draining. At these facilities, the drainage water will be collected, treated, and discharged to the river. Water treatment will include sedimentation, multimedia filtration, and activated carbon adsorption, as described below. The water treatment system, which will have a capacity of 37 gpm, will be trailer- or skid-mounted so it can be easily moved to different staging areas as the removal action progresses to different areas of the river.

Process flow diagrams and material balances for these facilities are shown on Drawing P-1.1.

The locations of staging areas where gravity drainage will take place are shown on Drawing G-4.1. The staging areas, upstream to downstream, are designated 1N, 2S, 3S, 4N, and 5S.

At staging area 5S, a gravity drainage area will be constructed within the staging area with enough space to process the volume of "wet" materials removed over a 3-day period at the maximum excavation rate of 500 cy/day. The materials would be stored in daily piles, and each pile will occupy an area of 62-ft by 62-ft with 1:3 side slopes to a maximum height of 10 ft. Perforated underdrains will collect the gravity drainage, which will be routed to a sump for pumping to the skid- or trailer-mounted water treatment equipment. Treated water will be discharged back into the river.

Solidification of the sediments, if and when required, will be performed within the sediment staging areas. Mixing will be performed by backhoe, and may be carried out at the same time the sediments are loaded into haul trucks for transport to the Allied OU. A 5-day supply of solidification reagent will be stored onsite.

There will also be space at the staging areas for vehicle tire decontamination stations, a storm water retention basin, and vehicle parking areas during transportation down time. A typical layout of sediment staging and water treatment areas are shown on Drawing P-3.1.

A second treatment system will be necessary to handle water generated as a result of dewatering certain areas of the river to allow for excavation in the dry within the Phase 1 and Phase 2 cofferdam excavation areas and decrease the overall depth of water in the areas targeted for sediment removal. This separate water treatment system, which will accommodate a total dewatering rate of 500 gpm, will include chemical treatment (polymers and/or metal coagulants), sedimentation, multimedia filtration, and activated carbon adsorption, as described below.

To the extent practical, sediment excavation inside the Phase 1 and Phase 2 cofferdams is expected to be performed "in the dry," which will require construction dewatering for each removal area to be excavated. After installation of the sheet pile wall for either of the cofferdam structures, the water inside the cofferdam will be decanted over a period of days. The decanted water will be directly discharged downstream until the ponded water elevation nears the sediment surface, at which point the water will be diverted through a treatment system that is separate from (but similar to) the system that will be used to treat water collected during sediment/soil drainage activities.

Although river bank and floodplain soils removed above the water table will require minimal drainage or stabilization, it is anticipated that a significant portion of the excavated materials at the Site will require the use of both passive and active measures for water removal to allow for efficient transportation and disposal. Excavated sediments and floodplain soils removed below the water table will contain water due to their in situ saturated environments. Mechanically-excavated sediments will incorporate additional water within the excavator bucket; it is assumed that the excavator bucket will typically contain 80% sediment mixed with 20% water by volume. Also, water from precipitation and storm water flow will require control and potentially additional drainage efforts.

Wet excavated materials will be drained and stabilized at staging areas or adjacent to removal areas through gravity drainage, dry soil mixing, decanting, and the addition of solidification agents. Contractors will use two possible approaches to gravity draining of excavated materials. In removal areas where a sufficient area of floodplain soils that are targeted for removal is available, wet sediments excavated from the adjacent river reach will be placed directly on the floodplain to drain. The water from this drainage will not be collected, but the drainage areas will be enclosed by erosion control measures (e.g., silt fences, hay bales) to control the potential migration of solids away from the floodplain areas targeted for subsequent removal. After drainage of the sediments is complete, the drained sediments and underlying floodplain soils will be excavated and transported for final disposal. Alternatively, in removal areas where there is insufficient area for drainage operations, the excavated materials will be transported to staging areas designed for gravity draining (Drawings G-4.1 and P-3.1). At these facilities, the drainage water will be collected, treated, and discharged to the river. These staging/drainage areas will be bermed and lined with impermeable geosynthetic materials. Temporary erosion controls (e.g., sumps, silt fence material, earthen berms) will be installed to verify that decant water and stormwater runoff from staging areas do not enter the Kalamazoo River in an uncontrolled fashion. Geosynthetic drainage composite materials or perforated pipe underdrains will also be used at material stockpile areas to facilitate the drainage of wet sediments and to manage drainage water.

Solidification agents may include saw dust, fly ash, or cement. Drained sediments will be tested to determine if they pass the Paint Filter Liquids Test (EPA SW-846 Method 9095A). When solidification reagent is needed, it will be added to the drainage pile and mixed using a backhoe. Additional mixing will occur during transfer to transport vehicles, and further mixing will occur during offloading at the landfill and spreading of the offloaded solidified sediment.

Similar to the treatment system used for construction dewatering, the drainage water treatment system will consist of mixing, flocculation, and a settling basin or Baker tanks for settling, followed by multimedia filtration and carbon adsorption. The multimedia filters and carbon adsorbers will be trailer-mounted and capable of movement to different staging areas as the sediment excavation moves to each removal area or support location. Multiple treatment systems may be deployed to support removal actions in more than one place at a time.

Daily discharge limit 0.20 µg/L PCBs

45 milligrams/L for TSS

rethod 160.2

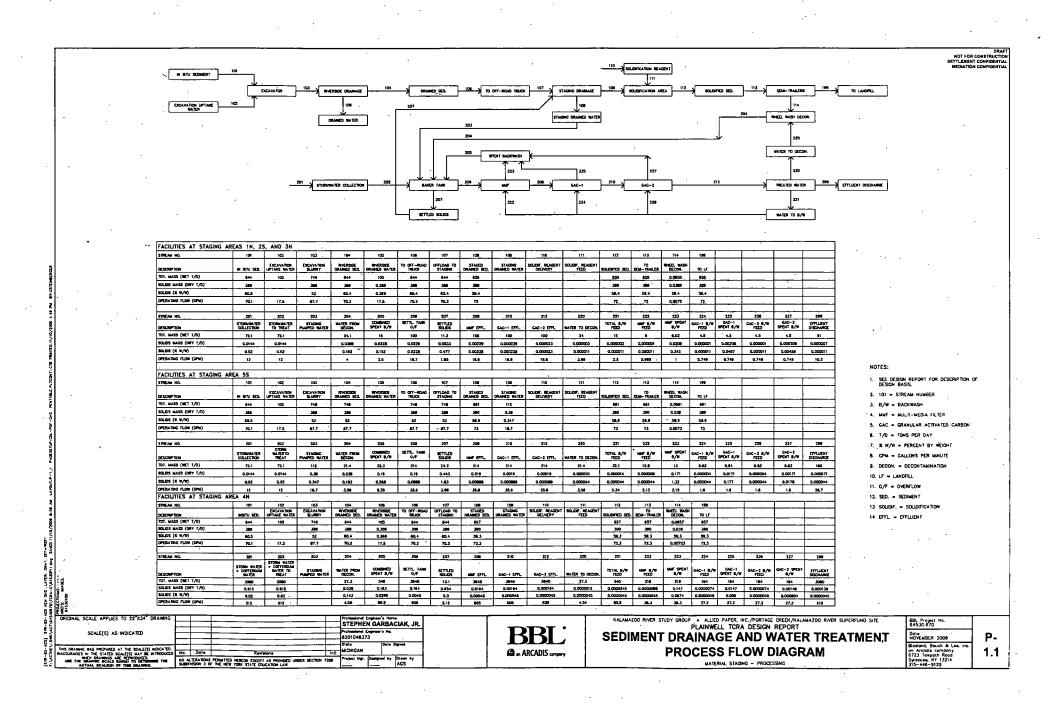
rethod 160.3

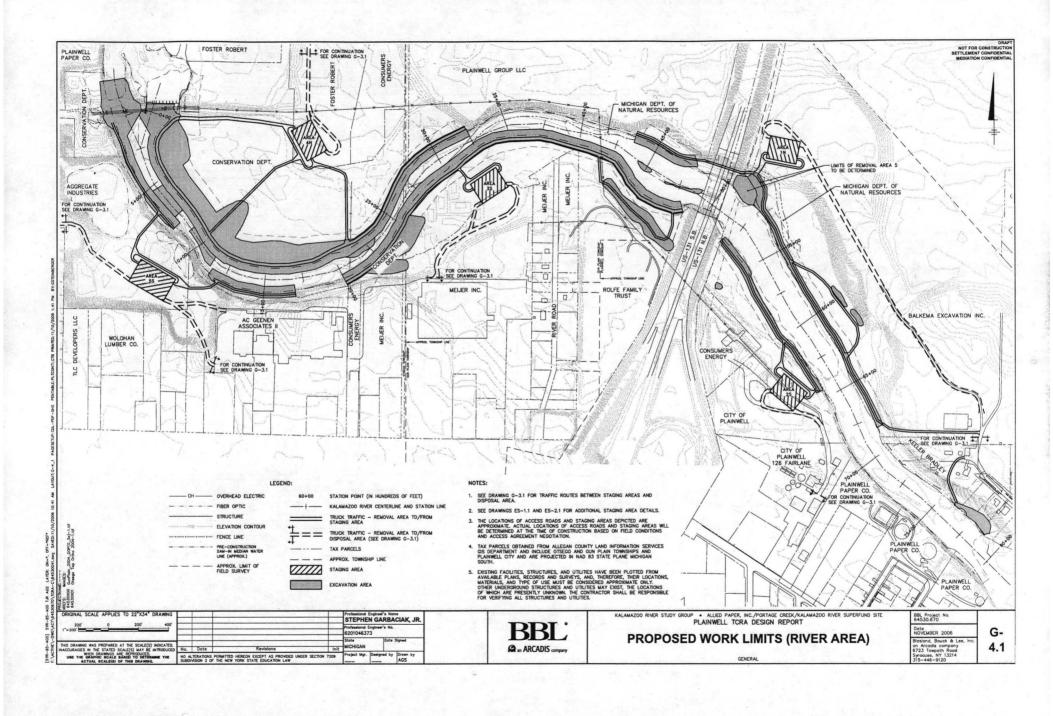
rethod 160.2

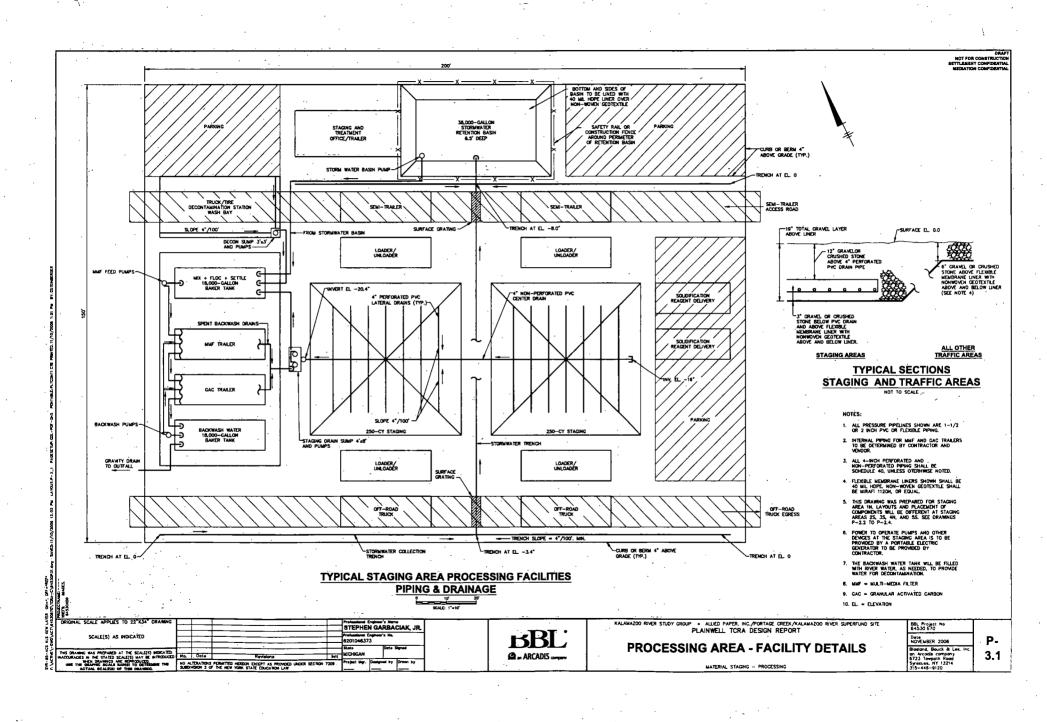
rethod 160.3

rethod 16

Plainwell SRD Attachments





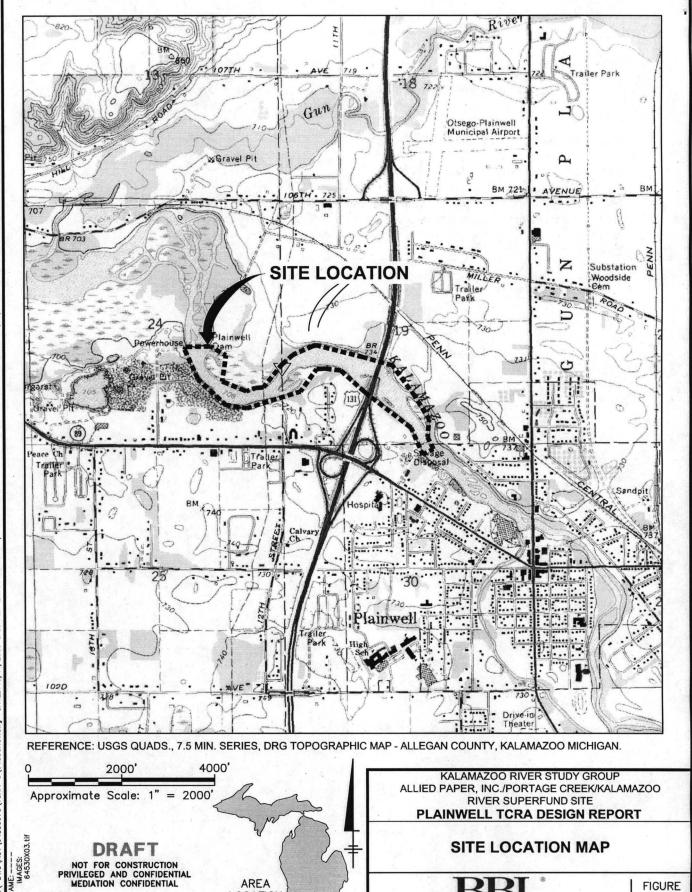


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Section I - Item 11. Map of Facility and Discharge Location

The Site Location Map is attached as Figure 1-1.

The locations of staging areas where gravity drainage will take place are shown on attached Drawing G-4.1. The staging areas, upstream to downstream, are designated 1N, 2S, 3S, 4N, and 5S.



1-1

an ARCADIS company

LOCATION

MICHIGAN

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Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site Plainwell TCRA

Section I - Item 13. Adjacent Property Owners

RCEL_ID	ACRES OWNER	ADDRESS	OWNER_CITY	STATE	OWNER ZIP	CAREOF	ADDRESS0	DISTRICT	ZONING CLASS	ASSESSMENT LIBER PAG	E TAX NAME	TAX_CAREOF	ADDRESS1	TAX_CITY	TAX STATE	TAX_ZIP	DEED ACRES BSA
19-005-00	30.13 PLAINWELL GROUP LLC	4366 LIBERTY SQUARE SW	GRANVILLE	MI	49418		1150 MILLER RD	03010	401	44,700 1676/452	100		S TOP S	- Property	139	-	0.00
19-008-00	79.51 PLAINWELL GROUP LLC	4366 LIBERTY SQUARE SW	GRANDVILLE	MI	49418		1170 MILLER RD	03010	401	115,600 1676/452				10000		1 3	0.00
19-008-00	79.51 PLAINWELL GROUP LLC	4366 LIBERTY SQUARE SW	GRANDVILLE	MI	49418		1170 MILLER RD	03010	401	115,600 1676/452				1	6 1 1	1	0.00
9-010-00	2.40 CONSUMERS ENERGY	4000 CLAY AVE SW PO BOX 201	GRAND RAPIDS	MI	49501-0201	TAX DEPARTMENT	MILLER RD	03010	301	1,700 /		THE RESERVE OF	THE A			100	0.00
9-011-00	22.18 MEIJER INC	2929 WALKER AVE NW	GRAND RAPIDS	MI	49544		1195 M-89	03010	201	6,757,000 1863/613		The state of the s		1000		120	0.00
9-016-00	1.97 MEIJER, INC	2929 WALKER AVE NW	GRAND RAPIDS	MI	49544		460 RIVER RD	03010	202	300 2003/788		The second second	The state of the s		1 9 9		0.00
9-019-00	1.51 MEIJER, INC	2929 WALKER AVE NW	GRAND RAPIDS	MI	49544		460 RIVER RD	03010	202	300 2003/788		TO 1853	A 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(1) (2) Par			0.00
9-026-00	2.22 MICHIGAN DEPT OF NATURAL RESOURCES	PO BOX 30735	LANSING	MI	48909-8235	PAYMENTS IN-LIEU OF TAXES PROGRAM	480 S 131 (ISLAND)	03010	701	0//		1000	L POPUL CO	100		No.	0.00
3-007-00	5.91 MENASHA 1980 CORP	320 FARMER ST	OTSEGO	MI	49078			03020	401	9 100		- 10 BB - 10	1. 63.7	The same		12.0	0.00
-008-00	4.36 LYNCH JOHN SR	1426 106TH AVE	OTSEGO	MI	49078-8700	DAWN MATYSIK TRUSTEE	1432 106TH AVE	03020	401	40.100				100.00	1 3 3		0.00
-009-00	4.03 MATYSIK DAWN	1426 106TH AVE	OTSEGO	MI	49078-8700	Community on model	1426 106TH AVE	03020	401	62.500 1836/725			The second		18 389		0.00
012-00	2.09 TOWN JEFFREY	1412 106TH AVE	OTSEGO	MI	49078		1412 106TH AVE	03020	401	45,300 1263:496		of Parts in		1 6 3	150		0.00
013-00	4.88 MAXWELL AARON E & KRISTINA L	1402 106TH AVE	OTSEGO	100	49078		1402 106TH AVE	03020	401	77,400 2842/203		38 -0.8	5 2	1 1 1 1 1 1		100	0.00
014-00	12.00 OTSEGO WATER POWER CO	1402 106 IH AVE	OTSEGO	1001	49078		1402 1001H AVE	03020	701	0		April 10 months		1			0.00
017-00	4.57 HARRINGTON RICHARD & PAMELA	1000 111 751 111000	PLAINWELL	No.	49080	HARRINGTON AUTO SERVICE	1437 M-89 HWY	03020	201	120,100 1470:362				1		115	0.00
		1365 HAZELWOOD	OTSEGO	Test.	49078	HARRINGTON AUTO SERVICE	1431 M-89 HWY	03020	401	23,300 2030/428			30 95	1 TO 10 TO 11	1	100	0.00
018-00	12.54 CORRADINI DENNIS & NANCY	408 CONFERENCE		MI				03020	401	67,900 1095:523		Marin St.	3 8 IK	121	THE TRACE		0.00
-008-00	107.21 FOSTER ROBERT	6305 GULF DR N	BRADENTON BEACH		34217-1663		1224 MILLER RD	03020	401	67,900 1095:523				5 12 11 19			0.00
-008-00	107.21 FOSTER ROBERT	6305 GULF DR N	BRADENTON BEACH		34217-1663		1224 MILLER RD		401	67,900 1095:523				- 100	100 THE 100	1 200	0.00
008-00	107.21 FOSTER ROBERT	6305 GULF DR N	BRADENTON BEACH	FL	34217-1663		1224 MILLER RD	03020						15 0,10	1000	1	0.00
008-10	12.57 FOSTER SHIRLEY	1222 MILLER RD	PLAINWELL	MI	49080		1222 MILLER RD	03020	301	58,700 1288:184 8,900			1				0.00
020-00	7.77 CONSUMERS ENERGY	ONE ENERGY PLAZA	JACKSON	MI	49201-9938	PROPERTY ACCOUNTING EP9-282	106TH AVE	03020			100		1 6				0.00
020-00	7.77 CONSUMERS ENERGY	ONE ENERGY PLAZA	JACKSON	MI	49201-9938	PROPERTY ACCOUNTING EP9-282	106TH AVE	03020	301	8,900				160			0.00
025-00	3.66 RIEDEL RUTH VERONICA TRUST	1339 106TH	OTSEGO	MI	49078		1339 106TH	03020	401	57,700	E.S. V. CORLEGE	CONTRACTOR OF THE		1	13	17.12	0.00
026-20	3.12 STARR DAVID & HEATHER	1344 106TH AVE	OTSEGO	MI	49078		1344 106TH AVE	03020	401	54,200			1100	- 12		1 2	0.00
036-00	146.10 OTSEGO WATER POWER CO		OTSEGO	MI	49078			03020	701	0	The state of the s	Mary Water	100	1 3		11 - 50	
47-00	24.31 PLAINWELL PAPER CO	PO BOX 385	PLAINWELL	MI	49080		200 ALLEGAN ST	03020	301	62,400	the letter 1000 to the letter	1 S X A L 10		12 3 33			0.00
47-00	24.31 PLAINWELL PAPER CO	PO BOX 385	PLAINWELL	MI	49080		200 ALLEGAN ST	03020	301	62,400	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					. 7	0.00
69-00	3.05 T.L.C. DEVELOPERS LLC	3054 S 9TH STREET	KALAMAZOO	MI	49009		1285 W M-89 HWY	03020	201	395,600 1853/732			4	- 22	-Au-		0.00
73-00	19.25 AGGREGATE INDUSTRIES	6401 GOLDEN TRIANGLE DR., STE 400	GREENBELT	MD	20770	ATTN: PHILIP HANCOCK	465 12TH ST	03020	201	80,000 1328:235				118	- As		0.00
074-00	2.84 WOLOHAN LUMBER CO	407 N CLINTON AVENUE	SAINT JOHNS	Mi	48879	TERRY O'TOOLE	1277 M-89 HWY	03020	201	475,000 2640/779		(4)	A	125 1/	3.5	100	0.00
078-00	3.25 A C GEENEN ASSOCIATES II	12 WEST 8TH ST, SUITE 250	HOLLAND	MI	49423		1221 M-89 HWY	03020	201	949,300 2399/187			1	1 196			0.00
078-10	1.87 A C GEENEN ASSOCIATES II	12 WEST 8TH ST, SUITE 250	HOLLAND	MI	49423		M-89 HWY	03020	201	24,000 2399/187				3:		51.00	0.00
084-00	4.66 A C GEENEN ASSOCIATES II	12 WEST 8TH ST SUITE 250	HOLLAND	MI	49423		M-89 HWY	03020	201	26,200 2399/187	1			don't	1		0.00
086-00	1.93 CONSUMERS ENERGY	ONE ENERGY PLAZA	JACKSON	MI	49201-9938	PROPERTY ACCOUNTING EP9-282	000000000000000000000000000000000000000	03020	301	42,800	1		A service and the				0.00
087-00	8.16 A C GEENEN ASSOCIATES II	12 W 8TH ST., STE 250	HOLLAND	MI	49423-3179		1221 M-89 HWY	03020	201	3,236,100 2399/187	THE HOME DEPOT USA INC	PROPERTY TAX DEPT	T PO BOX 105842	ATLANTA	GA	30348-5842	0.00
990-00	1.96 AGGREGATE INDUSTRIES	6401 GOLDEN TRIANGLE DR., STE 400	GREENBELT	MD	20770	ATTN: PHILIP HANCOCK	12TH ST	03020	201	28,300 1283:177							0.00
092-10	4.65 MEIJER INC	2929 WALKER AVE NW	GRAND RAPIDS	MI	49544		M-89 HWY	03020	201	48.000			10.7				0.00
93-00	34.72 CONSERVATION DEPT	STATE OF MICH	LANSING	0.41	48909			03020	701	0	1		1	0.00			0.00
94-00	3.97 CONSERVATION DEPT	STATE OF MICH	LANSING	0.41	48909		1 5 2	03020	701	0					1		0.00
095-00	0.14 CONSUMERS ENERGY	ONE ENERGY PLAZA	JACKSON	0.41	49201-9938	PROPERTY ACCOUNTING EP9-282		03020	301	900			1		100		0.00
96-00	3.30 CONSERVATION DEPT	STATE OF MICH	LANSING	241	48909	THOI EITT HOGOGITHIO ET S'ESE	The second second	03020	701	0			1				0.00
29-00	16.83 OTSEGO WATER POWER CO	117 E ORLEANS	OTSEGO	241	49078		117 E ORLEANS	03020	701	l ol	1		1	1			0.00
30-00	19.41 MENASHA PACKAGING COMPANY LLC	320 N FARMER	OTSEGO		49078	ATTN: LEN HATTON	320 N FARMER	03020	301	3,976,500 2169/678							0.00
030-00	6.11 CITY OF OTSEGO	117 E ORLEANS	OTSEGO	AA1	49078	The second second	210 N FARMER	03020	701	0/	1	1		1	1		0.00
26-00	41.36 CITY OF OTSEGO	117 E ORLEANS	OTSEGO	3.41	49078		605 E ALLEGAN	03020	701	l ol				1			0.00
05-00	73.94 BALKEMA EXCAVATING INC	1500 RIVER STREET	KALAMAZOO	I'm	490/8		701 N MAIN ST	03020	C 302	101,200 2301/353		I					0.00
05-00	73.94 BALKEMA EXCAVATING INC 0.65 KEELER BRAD	325 1ST AVE	PLAINWELL	MI	49048		I C NIMM N I U	03010	G 000	012509/707	30%			e Cor			0.71
				I'mi			426 DIVED ST	03010	R 301	41,000 2549/801		1	4	7 - 00			0.00
61-00	7.06 ROLFE FAMILY TRUST	6220 NANTUCKET LANE	KALAMAZOO	MI	49009		439 RIVER ST 670 ALLEGAN ST	03010	G 701	41,000 2549/801			3	1			0.00
62-00	12.86 CITY OF PLAINWELL	141 N MAIN STREET	PLAINWELL	IMI.	49080		690 ALLEGAN ST	03010	C 302	21,600		100				1	0.00
62-10	3.82 CONSUMERS ENERGY	212 WEST MICHIGAN AVE	JACKSON	MI			090 ALLEGAN ST	03010	C 302 C 000	0 2509/707	1		4			1	1.52
75-10	1.52 KEELER BRAD	325 1ST AVE	PLAINWELL	MI	49080	and the second s		03010	C 000 C 301	3.200/	the military for the same	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		10 . 4			0.00
6-00	2.63 PLAINWELL PAPER CO	3601 MINNESOTA DRIVE-SUITE 800	EDINA	MN	55435	JEFFREY A ARNESEN	180 MICHIGAN AV					7. 1294	100		1		0.00
8-00	2.04 PLAINWELL PAPER	3601 MINNESOTA DRIVE-SUITE 800	EDINA	MN	55435	JEFFREY A ARNESEN	170 PROSPECT ST	03010	C 301	4,000 /				DI AMUSEU		40000	
39-50	6.95 CITY OF PLAINWELL-126 FAIRLANE	126 FAIRLANE ST	PLAINWELL	MI	49080	DEPT OF PUBLIC WORKS AREA	126 FAIRLANE ST	03010	C 701	0/	CITY OF PLAINWELL	100 2 100	141 N MAIN ST	PLAINWELL	IMI	49080	0.00
39-00	0.25 FULLER S KEITH	213 W FIRST AV	PLAINWELL	MI	49080		213 W FIRST AV	03010	C 401	43,900 1592/ 978					1	lain.	0.00
40-00	0.39 GOOLSBY GERALD & PATRICIA	221 W FIRST AVE	PLAINWELL	MI	49080		221 W FIRST AV	03010	C 401	55,600 1045/ 686	GOOLSBY GERALD & PATRICIA	100	221 W FIRST AV	E PLAINWELL	MI	49080	0.00
40-50	0.44 HENDERSON ROLENE TRUST	233 W FIRST AV	PLAINWELL "	MI	49080		233 W FIRST AV	03010	C 401	50,500 2692/983				- D			0.00
41-00	0.56 MARTINSON KRISTINE B	239 W FIRST AV	PLAINWELL	MI	49080		239 W FIRST AV	03010	C 401	65,600 2514/761		5.5		1	E I I I I I	1 775	0.00
41-50	0.57 ROBINSON ALLEN K & JOANN	249 W FIRST AV	PLAINWELL	MI	49080		249 W FIRST AV	03010	C 401	56,300 2481/184	TO THE PARTY OF TH	DO 1 7 10	9	168.00	100		0.00
042-00	0.52 KEELER ROBERT & THELMA TRUST	933 W	KALAMAZOO	MI	49009-6317		311 W FIRST AV	03010	C 402	12,800 2588/56		100		THE RESERVE		100	0.00
042-10	0.54 PETERSON STEVEN & MARIA	305 W FIRST ST	PLAINWELL	MI	49080		305 W FIRST AV	03010	C 401	35,600 2577/854				10 m	180		0.00
044-00	2.04 KEELER BRADLEY	325 W FIRST AV	PLAINWELL	MI	49080		325 W FIRST AV	03010	C 401	61,200 1629/ 50				1.5	1337		0.00
	3.18 PLAINWELL PAPER CO	3601 MINNESOTA DRIVE - SUITE 800	EDINA	MN	55435	JEFFREY A ARNESEN	175 PROSPECT ST	03010	C 301	3,000/	CONTRACTOR OF THE PARTY OF THE	The second second			12.00		0.00

Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site Plainwell TCRA

Section III . A. - Item 2. B.

Process Wastewater is the net discharge of treated sediment drainage water after recycle streams for filter backwashing and vehicle decontamination have been removed.

Regulated Storm Water is the treated discharge of stormwater runoff from sediment staging and processing areas which has been collected in the Storm Water Retention Basin(s).

Other (Dewater Cofferdams) is the removal of infiltration water within the cofferdams (with treatment, if necessary) to allow excavation in the dry for sediments behind the Plainwell dam.

Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Sité Plainwell TCRA

Section III . B. - Item 1. G.

Anticipated discharge flow rates will vary throughout the construction period, depending upon the nature and locations of the excavation activities. Drained water volumes will vary, depending on the processing of floodplain soils or excavated submerged sediments. The storm water component will depend on the rainfall amount during the construction season. Wash water usage will vary as a result of the number of trucks entering or leaving the processing area.

Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site Plainwell TCRA

Section III . B. - Item 3.

Discharge monitoring will consist of determining concentration levels of polychlorinated biphenyls (PCBs) and total suspended solids (TSS). The PCB concentrations of waters undergoing treatment will vary as a result of the concentrations in sediments being processed. In general, PCBs are associated with solids; processes which remove suspended solids will remove most of the PCBs.

A waiver is requested for all constituents and parameters other than PCB and TSS. Pollution Prevention measures will be implemented, and will consist of filtration and liquid-phase granular activated carbon adsorption. The filtration process will provide suspended solids removal, while the subsequent liquid-phase granular activated carbon adsorption process will remove organic constituents.

Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site Plainwell TCRA

Section III . B. - Items 4. through 10.

Samples of sediments and waters were analysed as part of the Remedial Investigation for the Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site. Geotechnical properties of sediments have also been measured during these studies. The Human Health and Ecological Risk Assessments indicated that PCBs are the primary chemical stressors at the site.